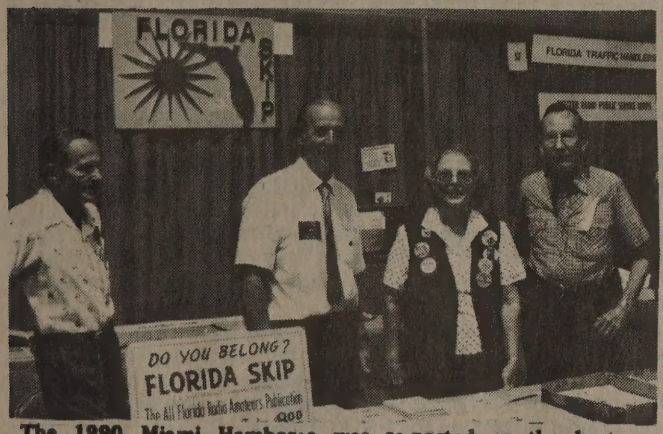
THE NEW

FLORIDA SKIP

VOL. 32 NO. 7 THE ALL-FLORIDA AMATEUR RADIO PUBLICATION March 1990 75 Cents

FCC Clarification on Commercial and Third-Party Traffic



The 1990 Miami Hamboree was reported as the best ever. It was for Florida Skip! Thanks to hundreds who came by our booth to sign up and renew. Here in booth WB4FGL, Bob, Andy W4IYT, Editor-Publisher; Virginia Mae Rues and OM Layton W4-VBQ. See you again Feb. 2 & 3, 1991. Photo Gary Rues.

HAMFESTS AND CONVENTIONS

By Kay Anderson, W8DUV

It took some doing, but we made four out of the last five hamfests: Citrus County, Pinellas, Miami and Sarasota. Each one had its own special flavor and attraction.

The folks at Citrus Springs make you feel at home the minute you walk in the door. Smiling ladies sell tickets and if you say you're not licensed, just somebody's XYL — you get a special rate and a special ticket. Then there's a drawing just for those ladies. With my big blue W8DUV badge in place, I decided to tell the truth and pay the regular price. The O.M. found the best bargains were outside with the tailgaters. QSY Back page col 1.

COMING EVENTS

Ft. Walton Beach Swapfest, Mar. 17 & 18th
Orlando Hamcation, Mar. 23, 24 & 25th
West Palm Beach Hamfest, Oct. 13 & 14th
LARA, Eusis Hamfest, Nov. 3rd & 4th.
Citrus Co. Hamfest Crystal River Jan 26, 1991
Miami Hamboree, Feb. 2nd & 3rd 1991
Please send in dates early. Tks Editor.

The following is excerpted from a previous bulletin released in November of 1989. The text is excellent for those needing clarification on the continuing problem with various interpretations of third-party and business communications in the amateur bands. I advise all SYSOP's to keep this on file as a resource when clarification users are needed.

Packet radio, because of it's unique potential, is easily susceptible to abuse in these areas; particularly that of commercial communications.

The commission has, on numerous occasions, provided guidance to amateur stations conducting third-party communications.

In the Report and Order in P.R. Docket Number 88-139, for instance, the commission concurred with the ARRL's observation concerning the proper balance in the rules between the flexibility to achieve the objectives of the amateur service and the degree of protection necessary to prevent exploitation of the service. The amateur service should be allowed to utilize its allocated frequencies unfettered by encroachment from commercial entities. It should not be allowed to be exploited by those who would use them as an alternative to the land mobile, broadcast, maritime or common carrier radio services.

For the above reason, Section 97.113(a) of the commission's rules prohibits an amateur station from transmitting any communication the purpose of which is to facilitate the business or commercial of any party. No amateur station shall transmit communications as an alternative to other authorized radio services, except as necessary to provide emergency communications.

In the Order adopted June 29, 1983, the commission stated that the term "business" in this instance, is used in the broadcast context. It includes all types of communications which are intended to facilitate the regular business or commercial affairs of any party, whether individual or organization, whether for-profit or not-for-profit, whether charitable or commercial and whether government or non-government.

By Public Notice titled "Amateur Service International Radiocommunications" dated September 1, 1989, the commission further elaborated upon the scope of Section 97.113(a): all types of communications relating to business activities, including the advertising, soliciting, ordering, furnishing, delivering, accounting or billing of any supplies, materials or services are prohibited.

Although Section 97.115(a) permits an amateur station to transmit messages for a third-party to any station within the jurisdiction of any foreign government whose administration has made arrangements with the United States, all international communications by amateur stations are subject to Section 97.117 of the commission's rules, which limits amateur station transmissions to a different country to messages of a technical nature relating to tests and to remarks of a personal character for which, by reason of their unimportance, recourse to the public telecommunications service is not justified. This rule conforms to the International Radio Regulations applicable to the amateur service.

Our approach has been to allow the amateur community to resolve the issue in a spirit of cooperation, as it has for many issues several times in the past.

(Above is excerpted from Msg. from W8AKF via Harold N4KWB, Miami)

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WB4BRB	Don McAuthur	Dade City
K4CXW	Herbert C. Smith	Ft. Pierce
W4HRC	Florence Bogardus	Jacksonville
W4AGT	Don Melvin	Jacksonville
K4CP	W.E. Alexander	Yulee
WA4LUM	Bill Cappleman	Winter Garden
N4MUD	J. C. Gantt	Ft. Lauderdale
KE4NT	Everett Frank	Seminole

May they R.I.P. Please advis of any S/K in your area. Tks. Editor

SIXTH EDITION 2 METER REPEATER MAP

We are happy to announce the 6th edition of our famous 2 meter map. Map editor, Bill Tucker, W4FXE did his usual excellent job. The map is 11 by 17 inches printed on easy to read light yellow bond paper with black ink. Each city has its own box containing repeater frequencies. Another list is along the left side making it easy to see which city has what frequency. We are keeping the price down to 25 cents each plus your Self-Addressed Stamped Envelope (SASE) to "2" MAP, P. O. Box 501, Miami Springs, FL 33266.

Dear Andy:

I have a question which some of the readers or you may be able to answer.

It seems that every few years there is a new procedure for obtaining our ham license plates. The latest poop that I have says that during the year from July 1989 to June 1990, all ham plates issued prior to May 1986 will be replaced with new plates, and that those concerned will be notified by mail well before our birth months.

Does anyone know if this is still the gospel?

Thanks.
William A. Gibson, KD4FI
17400 Gulf Boulevard
Apartment No. C2
N. Redington BC, FL 33708

Editor's Note: Yes Bill, that is the latest information we received, also!

GEARVAKf TESTS ECONOMICAL AIRCRAFT
From GEARVAKf Bulletin

According to Ms. Lupe D. Loop, GEARVAKf Aviation director, Dr. Phugoid G. Dutchroll's new assistant assistant, the GEARVAKf Air Service (GAS) has a new recruit: Major M. "Mini" MachWarmouse (pronounced Mock WORmaus). Major MacWarmouse stands about 8.5 centimeters tall (or so he claims), thus just squeeking in over the GAS minimum height.

When asked why the GAS is accepting rodents into ranks, Ms. Loop replied, "Economy. We don't need to lay out the big bucks for a full-sized airplane any more; we can get away with those $1.98 rubberband specials they sell down at the Five and Dime."

When further pressed, Ms. Loop admitted that the Major had actually bought his way into the GAS with an undisclosed amount in small, unmarked coins. The Major's first feat of flight for GEARVAKf was to set a new point-to-point speed record while escaping from an agricultural engineer's spouse armed with a very sharp 12-inch blade.

Fortunately he made it through the closed course with all of his balsa wood, rubberbands and body parts intact. However, due to protests that his visual actuity gave him unfair advantage and actually negates this record, it's being kept rather hush-hush, so he plans another attempt in the spring. This time he will do it blindfolded.

The GEARcraft for the attempt has not yet been selected, but Major MachWarmouse has been seen checknig out the Fantastic Fantom Foam Flyers on sale at the GEARVAKf Gift Shop. — Mitz

FIRST EDITION 220 METER REPEATER MAP

We are happy to announce the 1st Edition of our new 220 meter map. Editor Harlan J. Cohn, W4UIM, Miami, FL. did an excellent job with the layout and research. Harlan was the Editor of the 440 Map also. The map, like all others is 11 by 17 inches printed on 50 pound lite blue paper. Each city has a box showing the 220 repeater frequencies in black ink. It also has a complete list of all frequencies boxed on the left side to find which city has which frequency. The price is the same as our 144 and 440 maps 25 cents each with your Self Addressed Stamped Envelope (SASE) No. 10 (business size) to 220 Map Florida Skip, Box 501, Miami Springs, FL 33266.

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TOP TWENTY TRAFFICERS — JANUARY 1990
By WA4PFK and KB9LT

1.	W3CUL	3,435	11.	WA4EIC	238
2.	W3VR	1,481	12.	K4SCL	237
3.	WA9VND	510	13.	N4JAQ	212
4.	KB9LT	425	14.	KB4KXV	201
5.	W4HAW	392	15.	AA4HT	189
6.	WA4QXT	327	16.	KA4FZI	185
7.	N4SS	317	17.	K4FQU	172
8.	WA4PFK	309	18.	K4ZK	157
9.	AB4EA	298	19.	K4UBR	156
10.	WD4IIO	284	20.	K4EUK	148

TRAFFIC HOUNDS — JANUARY 1990
By K4ZK, STM South Florida

NET	QNI	AVG.	QTC	AVG.	SESSIONS	MGR	QTC/QNI
QFN	1,093	17.6	737	11.9	62	N4SS	.67
FPTN	1,364	44.0	321	10.3	31	WB4WYG	.23
FMTN	628	20.2	294	9.2	31	W4NFK	.46
SEFTN	1,142	36.8	175	5.7	31	KD4GR	.15
TPTN	501	18.5	161	5.9	27	AA4CH	.32
GN	2,249	8.0	158	5.1	31	N4ET	.07
FAST	568	9.2	146	2.4	62	WD4KBW	.25
SVTN	642	20.7	122	3.9	31	KB4LB	.19
SWFTN	863	32.0	120	4.4	27	K4FQU	.13
QFNS	244	7.9	86	2.8	31	N4MML	.35
PBTN	387	14.3	80	3.0	27	WA4RUE	.20
FMSN	382	12.3	80	2.6	31	WC4D	.20
FPON	370	11.9	69	2.2	31	WB4GCK	.18
SPARC	630	29.3	49	1.6	31	AA4YA	.07
AIN	65	16.3	12	3.0	4	WA4PFK	.18
PRVAN	60	5.6	2	0.2	9	WD4KBW	.03
ENMC	56	14.0	1	0.2	4	K4ZK	.01

Total QTC: 2,613 • Average QTC/QNI: .22

FLORIDA C.W. NETS
By Ed, K4IA

QFN Manager Nick, N4SS Writes: QFN had an average month in January. Traffic fell significantly from January, but that was expected. The more exciting development was the return of some old hands and the addition of some new ones to QFN.

George Thurston, W4MLE, of Tallahassee has reappeared and is most welcome. Some of you may not be aware of what George has done for QFN, so maybe we can get an interview from him sometime. If you look through some of the old QST as well as **Florida Skip**, you will find that he has been there. Two other welcome returnees are Doug, W4MEE and Sid, W3QQ.

New arrivals are Mitch, N4VLH in Miami and Fred, K4QLM of Cocoa. Welcome and stay with us, as we need you both.

Those stations checking in 20 or more times on the early QFN are: W4DL, WA4EIC, KA4FZI, WX4H, W1KIX, KB9LT, W1NJM, WA4PFK, W1KAM and N4XS.

Those stations checking in 20 or more times on the late session are: WC4D, W4DL, WA4EIC, KA4FZI, WX4H, AA4HT, W4KIX, KB9LT, WA4PFK, N4SS, K4UBR and K4ZK.

As most of you know, we have had some serious personal problems occur. Dan Laxson, Jr. (W4DL's son) passed away after a short illness. We extend our sincere sympathy to Dan and his family. Also, Doc, WA4HDH is, as of this writing, in the hospital recovering from pneumonia. We wish Doc a speedy recovery and a healthy 1990.

We do not have complete net reports, so I cannot say who had perfect attendance or precisely how many times any particular station checked in.

Lastly, keep an eye out for the "revived" QFN Bulletin. This effort is being led by Dave, WB4AJL in Orlando. If you have not already sent in your mailing address to Dave, it is: Dave Baker, 1100 Delaney Street, Apartment F406, Orlando, Florida 32806; or via radiogram.

February is a short month, but with the loss of some of our key people we need all the help we can get! Please pitch in and help as you see the opportunity. We will appreciate that . . . and thanks for all the support during January. Until next month.

The Fellowship A.R.C. for the 5th consecutive year visited 5 area hospitals to let children talk to Santa Claus by radio.Toys donated by club members were distributed. SANTA NW1T, hel ers KB4ORA, W4GVJ W4AYJ (in photo), KB4ARD. (Photo by WA8PMB.)

FMSN Reported by O.B., WC4D: Quite a difference in the traffic handled in January compared to December. With no special event or holiday traffic during January, the QTC was only 80 versus 267.

QNI however, was only slightly off with 34 different stations with a total QNI of 382 versus 390 in December. Sixteen of the most active stations (those with over 15 QNI) accounted for 83 percent of the total.

Stations with 20 or more check-ins were: KA4NXF — 29, WC4D — 29, WB4WYG — 28, WA9VND — 27, AA4FG — 26, KC4VK — 22 and KB9LT — 20.

Since one of the main objectives of a traffic net is to train operators in handling formal traffic it would appear that, even though we have stations checking in regularly, if they are not handling traffic we are remiss in our objective. It is interesting to note that 15 of the 16 most active stations handled two or more messages and are getting in on the action. It would be gratifying to achieve a point where all stations could participate somehow. However it is good to know that, even though some stations are not getting any traffic, the outlet for local traffic is there when needed. This situation is appreciated.

FMSN meets daily at 1730 local time on 3651 KHz.

—73,
O.B., WC4D, FMSN Manager

QFNS Report from Alma, N4MML: January went smoothly on QFNS with 22 different stations checking in. My thanks to all who covered me during my recent absences from the net. It's nice to know that the net is in such capable hands when the manager is away.

Our perfect QNI for the month goes to Dick, WA4PFK. He also was NCS five times and QFN representative five times. Dick is a real asset to the net. Other QFN representatives were KA4FZI and WC4D. Miss Phil was also NCS five times.

Other NCS's who deserve recognition are: N4IWO, WA4QXT, KA4SIH and WA9VND who often comes in as representative from SEFTN.

The hardest thing to accept was the resignation of Willard, KA4SIH, who has been a tremendous help to us. Our best wishes to you, Willard in your move to North Carolina. Thanks for all you did for the net — you certainly will be missed.

We are glad to have Mitch, N4VLH and Cef, AA4CH join us often during the month. It was great to see so many of you at the Fort Myers Hamfest and I am looking forward to seeing more of you at Sarasota. In the meantime, join us any evening at 2000 local time on 3715 KHz.

—73/88
Alma, N4MML, QFNS Manager

A talk with Bill, K4ZK, SFL STM revealed that traffic was down this holiday season compared to last year. He believes it is due to the increasing packet operations. Assuming that the regular group

of phone and C.W. operators is constant, the packet operators broaden the exposure of amateur radio to the public as they deliver and originate their traffic. A plus for the public service sector.

—73,
Ed, K4IA

S.S.B. TRAFFIC NETS
By Joe Scungio, N4KFU

From Bill, WB4WYG, FPTN Net Manager: January is supposed to be slower than a holiday month and in some ways it was. Check-ins were about equal to December (1,364 vs. 1,359), but traffic did subside going from 321 to 136.

Twenty stations or 37 percent of roster members checked in 100% of the time. They were W4BKC, KI4CQ, WD4DAH, K4EJW, KB4FIY, WD4FNX, W4IAD, WA4JDH, KB4MON, K4NKA, KA4NXF, W4OXE, NY9Q, WA4RUE, K4SJA, WA9VND, KB4WCX, WB4WXW, WB4WYG and WB4ZVD.

We'd like to welcome Don, WA4GYR of Pensacola and Shelly, NU1L of Vero Beach as new net members. Nice to have coverage in those areas.

Roy, K4EJW of Ocala brought up an interesting question: "How long have some net stations been checking in?" K4EJW has a record of 32 years, W4SME has 27 years, WN4IIV has 17 years, WA4EIC has 16 years and WD4COL has 13 years. Anyone else with a lot of check-in time?

Blaine, WA4EIC had a mild heart upset that put him in the hospital for a few days and Dick, N2AOX is presently in Jacksonville for tests. We are very sorry to report that Jimmy Bradshaw, KA4AMC after a long illness at Milwaukee Hospital did not recover and is now a "silent key." The FPTN gang will miss him and his cheerful expertise on radio matters.

Start your morning with a little cheer, stop by 3940 at 7:00 a.m. and enjoy the friendly ionosphere. Listen to the hum of traffic, have a few laughs and get a good start for the day.

—73's,
Bill

From Earl, K4FQU, SWFTN Net Manager: The busiest month of the SWFTN year is past. Historically, it is the highest month for check-ins and traffic and it did not disappoint us. It would be something if it stayed like that all year round. However, now we can settle down to some serious traffic handling.

We have said many times before that this is a training net and so this year let each one of us think about finding some new blood to help us "old timers" out. Get a few new people lined up and trained to help us out during the summer "doldrums," so to speak. We eked our way through last year with the able assistance of a couple of people that were there two, three and yes, four times a week to fill in the gaps. We need more. It's not fair for these people. There are plenty of capable people out there, we just got to push them a little bit. I have a few in mind so hope you can think of some also.

The FMARC missed the fair again. Hope to line someone up to direct the job next year. We always had a lot of traffic from this event and the next bit generator is the Lehigh Spring Festival. This will be followed by "Set."

SWFTN celebrated its 12th anniversary on February 4th. There was an article in the "Modulator" regarding this historic event so won't go into further details except to say that its founder and the guy with the idea in the first place is still in there pitching. That fellow is Blaine, WA4EIC and he is still doing more than his fair share. It is a pleasure and a blessing to have him aboard. Blaine broke every record the net had last year.

—73/88,
Earl

Thanks to one and all.

CODE DIES AT SEA

London — It was recently reported that distress signals sent by ships in the familiar dot and dash of Morse Code are heading for the history books, according to the International Maritime Organization.

Beginning in 1993, **Morse Code will be "replaced"** by a system that, with the touch of a button, sends a radio distress signal to a satellite. From there, the ships position, name and time of accident are relayed to the Coast Guard.

That's progress for you . . .

— Bye, Bye, SOS

TO ALL RADIO AMATEURS
By John Sims, KA4ZAY, Miami

The Florida Repeater Council, Inc. (FRC) is the recognized amateur frequency coordinating body for the State of Florida. The FRC provides frequency coordination and interference resolution services to all Florida repeater operators, FRC members and non-members alike.

A recent reorganization of the FRC which was voted upon by the members, has prompted some changes. There are now nine regional directors including the president. The directors are responsible for conducting all business of the council. This includes general business, arbitration in interference conflicts and all coordination policies.

The appointed directors, officers, staff and their addresses are listed below for your information:

District One: William Bradley, WA4LLJ, P.O. Box 160794, Miami, Florida 33116-0794. Counties: Dade and Monroe.

District Two: Gerald Gumbus, N4GKI, 920 Pompano Drive, Jupiter, Florida 33458. Counties: Broward, Martin and Palm Beach.

District Three: Jerry Belt, K4ATV, 2261 Friday Road, Cocoa, Florida 32926. Counties: Brevard, Indian River, Okeechobee and St. Lucie.

District Four: James West, WA4AKH, 5499 Urbane Street, St. Petersburg, Florida 33714. Counties: De Soto, Hardee, Hernando, Hillsborough, Manatee, Pasco, Pinellas and Polk.

District Five: Vic Leisner, W3LGV, 9 Venetian Circle, Daytona Beach, Florida 32018.

District Six: James Hall, W3IJR, 2025 Maraville Circle, Ft. Myers, Florida 33901. Counties: Charlotte, Collier, Glades, Hendry, Highlands, Lee and Sarasota.

District Seven: Jim Morrel, KF4MX, 2111 Deerwood Acres Drive, St. Augustine, Florida 32086. Counties: Alachua, Baker, Bradford, Citrus, Clay, Columbia, Dixie, Duval, Flagler, Gilchrist, Hamilton, Lafayette, Levy, Marion, Nassau, Putnam, St. Johns, Suwannee and Union.

District Eight: Frank Butler, W4RH, 323 Elliott Road, S.E., Ft. Walton Beach, Florida 32548. Counties: Bay, Calhoune, Escambia, Franklin, Gadsden, Gulf, Holmes, Jackson, Jefferson, Leon, Liberty, Madison, Okaloosa, Santa Rosa, Taylor, Wakulla, Walton and Washington.

Vice President: Lawrence Stephey, KJ4DG, 2166 Sussex Road, Winter Park, Florida 32792.

Secretary: Shirley Hein, N4SBF, 5863 South 37th Court, Greenacre City, Florida 33463.

Treasurer: Greg Connary, WA1SOO, 8389 Elaine Drive, Boynton Beach, Florida 33437.

Two-Meter/10-Meter Coordinator; Alan Page, KE4WO, 851 N.W. 206th Street, Miami, Florida 33179.

220 MHz/900 MHz/Microwave Coordinator: George Jones, WB4AQR, 5211 Burr Place, Seffner, Florida 33584.

Six-Meter/440 MHz Coordinator: John Sims, KA4ZAY, 11102 S.W. 117th Street, Miami, Florida 33176.

We want to thank all the repeater owners, trustees and users for their continued support in helping to maintain order to the spectrum structure in our amateur repeater bands.

Please contact us for any questions you may have and from all of the officers and staff of the FRC, we wish you the best.

To All Florida Repeater Sponsors, Trustees and Operators:

Pursuant to a letter printed in **Florida Skip** (volume 32, number 6, February 1990) entitled "An Open Letter to the Florida Repeater Council" written by Lee Gross, KI4FF, a careful review of the facts will indicate that the information contained in KI4FF's letter is inaccurate and misleading.

I would hope that Mr. Gross was merely misinformed of the facts pertaining to an incident that recently happened between the Florida Repeater Council, Inc. and Mr. Bob Hartleb, WA4EMJ, as I have not been interviewed by Mr. Gross.

The "Policy Statement" Mr. Gross refers to has been in existence since the inception of the Florida Repeater Council, Inc. and a copy has been sent to every repeater sponsor. I have also

been enclosing a copy of the Repeater Coordination Policy Statement with every new and updated coordination and with any written correspondence that is sent out.

Numerous amateurs have purchased repeaters in the past and have had the frequencies coordinated to them only due to the fact that there were no applicants for repeater sponsorship on file with the council. There have been numerous applicants on file with the council for many months with equipment and sites ready to go, but have not yet been coordinated for a frequency pair in the south region because there are no available pairs for assignment. The pair in question was recoordinated to the next applicant as per the FRC Policy.

Also, Mr. Gross refers to repeaters as being "nothing more than parts" since the pair is not transferrable which is in effect, the practice of buying and selling frequency pairs.

If frequency pairs are not reverted back to the council for reissue as per the FRC Policy, then new sponsorships will never have the opportunity to install repeater systems.

I do not necessarily agree with all of the policies adopted by the Florida Repeater Council, Inc., but as an officer/staff member I must abide by the policies and enforce them and that is exactly what I have done to the letter with no exceptions. I hope each of you continue to fully support the policies and actions of the Florida Repeater Council, Inc.

If you would like to make changes to the policies and practices of the FRC, then please contact your regional director and voice your valued concerns. Please feel free to contact me for any coordination concerns.

Thank you and best of . . .

—73,
John Sims, KA4ZAY
Miami, Florida

PROJECT "NURSING HOME HOLIDAY TRAFFIC '89"

By Bill Gilman, WT4F, Project Coordinator

Early in December, several hams representing various clubs in Polk County, visited a number of nursing and retirement homes. The purpose was to provide a public service and to generate holiday radiograms for the residents.

So warmly was our service received, that 154 messages were originated. One hundred-and-three were sent via NTS and packet. However, 53 of these were for in-county delivery. (Polk is a big county.) These were delivered by telephone.

The pre-selected message text was created by Ginger Fitzgerald, WB4SOU, and incorporated ARRL MSG format with a few modifications.

Amateurs representing Lakeland Amateur Radio Club, Polk Ham Club and Polk ARES/RACES enthusiastically participated. Their combined efforts made this a very rewarding, enjoyable and successful holiday season event.

The way it worked for us was:

One ham made an advance phone call to each nursing home, establishing a contact person (usually the activities director). The service was explained and, if interested, a mutual time was set up to drop off the message form packet, which included, an introduction letter, specific instructions, a third party country list and also an ARRL numbered radiogram sheet. (They might want to send an additional type of message.)

Arrangements were made for pick-up by December 13th, by a predesignated operator. These were then sorted by region/area for routing into NTS/area or within the state. (All Florida NTS Nets were alerted, usually about a week or 10 days in advance, to anticipate additional outgoing traffic starting about December 14th through 22nd. That helps!)

Perhaps your club might like to do such a fun project for the shut-ins. Even mobile home parks have enjoyed this service. Ginger says, "If you would like to do the same thing, you may do so, with her blessing." It's lots of fun and a very rewarding experience.

The nursing homes expressed their deep appreciation of our service and plans are underway to do this project again in 1990.

I wish to express my sincere thanks to all who became involved and did such a great job.

Big birthday Party for Art W2SCA (left) at Holiday Inn in Boca Raton was attended by L to R: SCA, K4OL, K4JBI, K4DI, WB4YLJ and W2RST. Also not in photo W4MGL, W4MOO, W2LH, W2EEO among others. Art was 39!

FLORIDA PACKET

By Al Vesce, K4CY

Station Activity Report (SAR) is a voluntary report from a station handling NTS traffic to the Section Traffic Manager (STM). The SAR is always dated and sent on the first of the month and reports NTS activity of that station for the previous month.

For instance, on August 1st, reports will be sent advising NTS activities for the month of July. Four categories of information are reported and the total of items. A sample SAR follows.

Assume your call-sign is KB4FDV. Your SAR would look like this:

ST KB9LT @ K4GBB
QTC INVERNESS 904 344 8322
NR 6 R KB4FDV 16 BROOKSVILLE FL AUG 1
COTTON STOKES KB9LT
INVERNESS FL 32652
904 344 8322
BT
KB4FDV SAR FOR JUL 1989 X ORIG 2 RCVD 6 SENT 6 DLVD 2 TOTAL 16
BT
TODD KB4FDV
AR
KB4FDV @ K4CY
Z

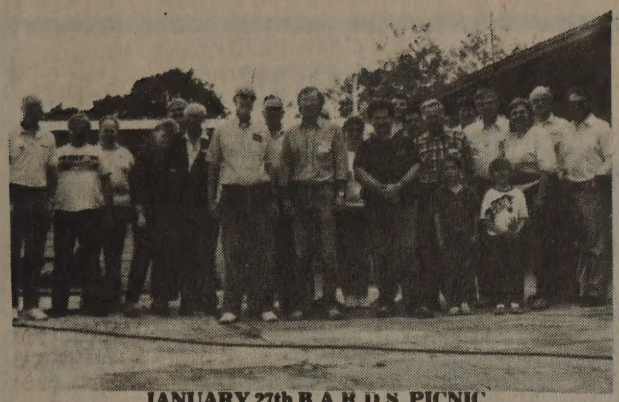
This message means two messages were accepted from someone locally which KB4FDV sent. He takes credit for "ORIG 2" and for "SENT 2." Then he received a total of six messages of which four were sent (relayed) and two were delivered "RCVD 4" and "DLVD 2." The remaining four that were relayed onward are added to the "SENT 2" for a "SENT 6." Adding up all of the "ORIG," "RCVD," "SENT" and "DLVD" gives a "TOTAL 16."

"ORIG" credit is only for messages sent that are for a third party. For instance, John Smith down the street asks you to send a message to his daughter in New Jersey. When you write that message down that's one point "ORIG 1." When you send that message (via packet, C.W. or voice) you take credit for "SENT 1."

If his daughter replies and you receive it (via packet, C.W. or voice) you take credit for "RCVD 1." When you pick up the telephone and deliver that message to John Smith you take credit for "DLVD 1."

Now if you should originate a message to your cousin in Rhode Island, you take no credit for "ORIG" since it was not initiated by a third party, but you do take credit when you send it "SEND 1."

If your cousin replies by ham radio (a formal NTS MSG) and you receive it, you take credit for "RCVD 1," but no credit for delivering it to yourself. There is, of course, no SAR credit for personal (SP) messages. Only for messages that are informal NTS (ST) format.



JANUARY 27th B.A.R.D.S. PICNIC
AT Q.T.H. OF JOE, KB4FO

From left to right: Bob, N4CU; Terry, WB5JFM; Peter, W7LUS; Joe, KB4FO and N4CXJ, XYL; Bob, N4XTO; Ken, N3CXJ; Dick, WA4PFK; Carl, KA4OPZ; Jim, KD4GR; Roseann Terrill; Rich, ND4G; Bill, KB4QVY; Robin, N4HHP; Steve, KK4GM; Israel Webb; Jeff, WD4BWC; Ed, W4FQM; KB4QVY, first harmonic; Barbara, WA4HWD; Bill, KB4XE; and Peter, AB4BC.
Missing and not shown in picture: Ron, KB4TCS and KB4QVY, XYL; KB4QVY, first harmonic; Norm, KK4FF; and Emil KT1G and family.

FLORIDA ARMY M.A.R.S. NEWS

By Robert (Bob) H. Watson, AAR4QH (W4DTV)

It is suggested that all Army MARS members be sure and check into (or at least listen) to the "C" Net on Tuesday nights; at 0001Z. This will give you a chance to make comments or to voice your opinions when the occasion arises. A lot of information is passed from the SMD and others. The QUA does an excellent job and reports a lot of this information to all members, for your records and files.

I went to the Miami Hamfest February 3rd through 5th. On the way down to Miami I stopped and visited my very good friend Dick, AAT4WT in Port St. Joe and enjoyed the opportunity to discuss MARS (packet, RTTY) and many other things. I was impressed by his very elaborate dual packet station. I left at approximately 1100 for Dunnellon.

Spent the night at Berts place and talked over MARS plans that are being planned for the future. Left Berts place for Miami. Arrived Miami Friday afternoon.

During the ham fest was disappointed that no "MARS" meeting was held, even though it was on the agenda. Evelyn Gauzens stated that she had received a request for a MARS meeting but no one was there to open the meeting. The QCWA/OOOT/SOWP group had a booth with free coffee, cakes, cookies, etc. and a book to register in.

W4IYT set up a booth for traffic handlers, etc., to sign in and had free coffee, etc.

Met AAR4OF, Steve; AAV4TN, Leo; AAV4DX, Kay; AAV4DY, Ed; AAV4GI, Jim; and a few other MARS members. I had a very good long talk with Steve about packet, RTTY, C.W., LSB, etc., and we roamed around together. Also had a nice discussion with Leo about RTTY, packet, etc., and other MARS information. Had a real good time with them both and swapped ideas.

Endeavored to recruit some new members into Army MARS and having been a member of the USAF and USN/MARCOR MARS, I used that past experience to sell Army MARS. I got some promises to consider joining.

Am looking forward to the Dayton National and International Army MARS Convention, knowing that the USAF, USN and MARCOR, will be there with the Army. Also will enjoy the hamfest. The one I attended last year was four days at about six hours each day.

Mr. Tom Moore has requested that I try and get them another invitation to the FCC-VEC Conference in June this year. He also requested that Captain Watson be included, the same as last year. He stated they both enjoyed the conference very much.

That's about all for this time and I hope I haven't forgotten anything, so 73 to all.

U.S.A.F. M.A.R.S.

By Guice W. Johnson, WA4LHO/AFA2SB

We all know that military exercises are not staged just to show off the MARS system. However, during the recent activities in Panama USAF MARS members did an outstanding job of communicating. Many MARS stations were busy around the clock with traffic.

One example of dedication is Nelson Guadalupe. KJ4KL/AFA2XD of Satellite Beach, Florida. Nelson is very active in USAF MARS as well as many other activities. He spent many hours during the recent months passing messages to and from Panama.

There are many times during the year that family and friends throughout the world are anxious about their loved ones away from home. This is what people like Nelson Guadalupe and hundreds of other operators are all about. They dedicate their time and equipment in order to help set those minds at ease.

The affiliate members of USAF MARS use many modes of communication. The one mode that is really developing in Region Two is packet radio. A large amount of traffic is delivered in Region Two by packet, both H.F. and VHF. Even though packet is very popular, we still handle the majority of European and Pacific area written traffic by teletype. Neither of these modes take the place of voice, phone patch or C.W. which is still alive and well.

Those of you that are MARS members, try to find a little more time to join one of the traffic nets. Those of you that are not MARS members, why don't you join? It is a great opportunity to develop your communication skills and also do something to help someone else.

To join USAF MARS contact: HQ AFCC/DOYX (MARS), Scott AFB, IL 62225-6001.

AN ODE TO C.W.

By Paul N. Dane, 2195-V, W6WOW

C.W. has served us quite well,
So on its demise I won't dwell.
Now it's up to that new satellite,
To see that the message is right.

If C.W. on ships has to end,
On the ham bands it still is our friend,
Ensuring the message gets through
By a system that's tired and not new.

For years, C.W. had no equal
And satellites are now just a sequel.
So let's all pray when the chips are down,
The up-link's up and down-link's sound!

Now satellite's are up there in space,
Hopefully each in its proper place.
But if system choice were left up to me —
I'd stake my life on my C.W. key!

(Hear, hear and amen! — Editor)

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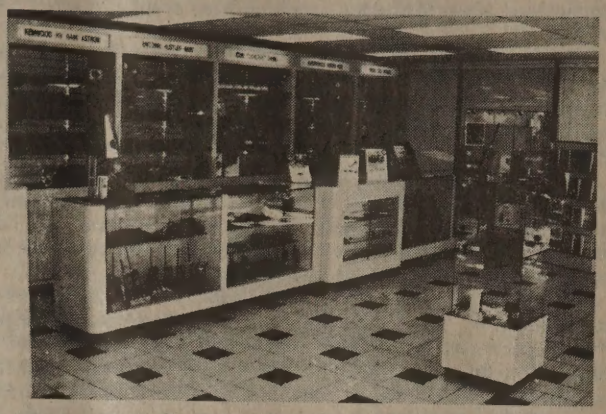

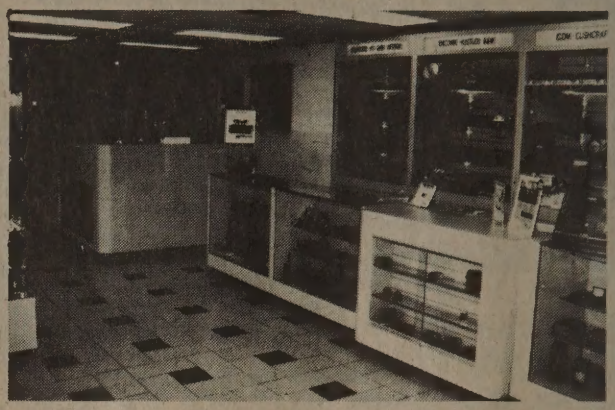

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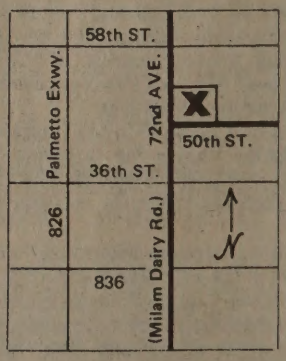

FLORIDA STATE Q.C.W.A. NEWS
Edited by Eli Nannis, K4JMH

Headquarters reports that the last membership number in 1989 was 22,971. Membership number 23,000 was assigned on January 11, 1990. More new members are needed and all chapters should make a special effort membership drive.

Headquarters also advises that if the Annual Chapter Report Form is not returned by March 1st, that chapter is assumed to be inactive and is removed from the regular QCWA List of Chapters.

The following QCWA members have accepted appointment to the Nominating Committee charged with assembling a slate of candidates for the summer 1991 elections. They will need candidates for the office of president, vice president, secretary and treasurer as well as candidates for five director positions.

The Nominating Committee is as follows: Mike Orofino, W2KO; Art Rauch, W4ZV; Jack Troster, W6ISQ; Frank Schwab, W8OK; and Jim McKim, W0CY.

If you know of qualified QCWA members who would serve, check with them and then contact any member of the Nominating Committee with your request that they consider nominating your selection.

The Florida QCWA Net and the Florida OOTC Net has been combined and they meet every Saturday at 0800 time on 3955 KHz.

CENTRAL FLORIDA CHAPTER

Our new meeting site is the Sizzler Steakhouse, Lakeland, and we had an attendance of 52 persons who seemed to favor the place. New officers were installed by W4LHP.

They are as follows: President, W4PBL; Vice-President, KM4OA; Secretary, W4JM; and Treasurer, K8RIF. W4SZ was presented with the Golden Anniversary Award. K8RIF was honored with the 1989 Meritorious Award for his work as treasurer over the past several years, He is deserving of it.

Our first-time visitors were K8KGD, WD9JLU, WB9NHC and from Augusta, Georgia, KJ4CS. Also nice to have W4PBL's son Stacy, N4XJS and wife Cindy with us from Orlando. Sorry not to see WT4F, N4SDV and W4YRK at the meeting.

Can anyone top W9TKV's countries-worked record of well over 325? WA4RLC has rediscovered 10-meter D.X. W4TIC faithful reporting in the State QCWA Net. KA4NQK keeps those forestry radios going.

W2HGV and wife soon departing for VK/ZL land. VE3BJF and VE3OEE still chasing countries.

Our luncheon meetings are at 11:15 a.m. on the third Saturday of each month at the Sizzler on U.S. 98 North . . . just south of 1-4, Lakeland.

— Reported by Jim Gundry, W4JM

PALM BEACH CHAPTER

Our chapter held its monthly meeting on December 19th. There was an excellent turnout of 42 members and guests at our regular gathering spot at the Prosperity Oaks Dining Room.

Christmas gifts were exchanged under the cordial direction of our able Activities Chairman Lennie Jazorek, W4LC.

We also welcomed guests Carlos Solera, TI2CLS and his son Kurt who are visiting the country from San Jose, Costa Rica.

A brief update on the proposed Palm Beach County Antenna Ordinance was given by Henry Luhrman, W4PZV. It sounds like it has been fairly well thought out and while being somewhat restrictive to arrays or structures over 65 feet, antennas between 35 and 65 feet will only require a permit. Special thanks should go to Henry and Manny Papandreas, W4SS and all other amateurs who have been instrumental in coordinating this ordinance.

The next meeting was held on January 30th at the same place and featured an auction. Some brought goodies and white elephants (radio style) and received top buck at our famous action auction meeting. They even didn't forget to bring money!

— Reported by Bob McDow, W4KOG

SUNCOAST CHAPTER

Our chapter held their regular luncheon meeting at the House of Chong in Sarasota on January 4th. There were 64 members and guests present.

President Bob Bookwalter, W4NWF introduced Secretary John Karban, W3IGC and his wife Esther and Treasurer Larry Pearsall, W9FDY and his wife Bea.

John Willig, W8ACE introduced Annette Dann, an employee of the Florida Power and Light Company. Annette is a graduate of Georgia Tech and spoke on lightning and the precautions and steps that should be taken to reduce the chances of damage to electronic equipment. She was assisted by Scott Willia, a new member of FP&L speakers program. After her talk, Annette passed out various items of literature and "Vial of Life" kits from the Red Cross.

— Reported by Bob Bookwalter, W4NWF

SOUTHEAST CHAPTER

There were 28 members and guests at our first regular meeting of 1990 on Saturday, January 20th. Our newly-elected President Herb, W4JXA presided.

Traditionally, the Southeast Chapter members man a hospitality booth at the Tropical Hamboree in Dade County. It was scheduled for February 3rd and 4th. The booth provided application blanks and assistance in recruiting new members for QCWA. In addition, we also provided complimentary refreshments for all. We discussed the requirements for supplies and equipment for the hospitality booth.

We also voted to purchase a gift for the drawing. Ted, K4ONY volunteered to head a telephone committee charged with calling all members on the Friday preceding a regular Saturday meeting day. The more members attending meetings, the higher the 50/50 drawing.

We all welcomed back George, W4UAA who is recovering nicely from his recent operation.

All members are reminded that dues are now due so lets get the dues to the treasurer as soon as possible.

Our chapter holds regular meetings on the third Saturday of the month at Denny's on Northwest 36th Street and the Palmetto Expressway. Guests are cordially invited.

— Reported by Sid Wolfeld, KJ4AS

PELICAN CHAPTER

There were 48 members and guests present at the January 17th meeting.

A Meritorious Award Certificate was presented to Don Bice, W1PCO by Wes Randles, W4COW our national treasurer and Jay Strom, K9BSL president of our chapter. The award was in recognition of Don's exemplary conduct as secretary and his outstanding monthly bulletins.

Paul Turner, W1DLP is our new secretary.

Our chapter had its next meeting on Wednesday, February 7th when we welcomed our new President, Harry Dannals, W2HD. We invited all neighboring chapters to attend.

Eli, K4JMH was presented, belatedly, a plaque by the chapter for bringing in a number of new members during the year 1985.

Phil Stern, WA4ZVO told us of his experiences in designing a transceiver for use by the Navy. This was in 1943 and the end result was a transceiver similar to the one we use today.

Wes, W4COW reported that the new QCWA Directory will be arriving about April 1st and about 12,000 copies will be mailed out. He also urged the members to participate in the Annual QCWA QSO parties.

Don, W4PCO advised that there will be meetings each Monday, Wednesday and Friday at 4:00 p.m. on our new QCWA Repeater on 145.29. This is a QCWA Repeater and our use of it will make it a vital part of the communications on the Suncoast.

Congratulations to Jim Keyes, K4FCW as he now has 211 countries.

— Reported by Paul Turner, W1DLP

SUWANNEE CHAPTER

The Board of Directors of our chapter held a planning and luncheon session on January 23rd at the home of the President, Ray Chartier, W1RFE. Attending were Vice-President Jim Armstrong, W4HZR; Secretary/Treasurer Adis Henry, W4PFJ; and Directors Rowland MEdler, W4ANN, Bob Saulpaugh, AG3S and Ed Gaudet, K4BRC net controller of the chapter net, Saturday at 9:00 a.m. on 3940.

The meeting was directed toward program planning for 1990, way and means to increase membership, greater participation by the ladies of the chapter and improvement in the check-ins on the Saturday chapter net.

The schedule for 1990 meetings is on a bi-monthly basis and they are: February 24th, April 28th, August 25th, October 27th and December 8th. Each officer and director has been assigned the task of securing an interesting speaker for the meetings.

At the February 24th meeting the speaker was W4OMG, Floyd Dunlap who with his XYL Catherine, W4OMH cruised around South America for 50 days and had slides and gave comments. The meeting was held at Don's Smorgasbord on 36th Avenue in Ocala.

Our Chapter Number 62 welcomes all QCWA members and eligible radio amateurs to attend the meetings. This is a great group and growing. Come and see for yourself.

— Reported by Ray Chartier, W1RFE

GATOR CHAPTER

There were 42 members and guests at our January meeting at Stacey's Buffet in Clearwater. Our amateur guests were KA1RRE and KM4BH.

Our Program Chairman Bill, W4STX introduced our speaker Tom Johnson who spoke on the Pinellas Trails Program. This program was started by a group of citizens comprised of walkers, bicyclists and businessmen from throughout the county, promoting a 35-mile recreational park. Our chapter voted to give $35.00 to this worthy cause.

We have two new members, Spartan Bridge, W2ZYQ and Arthur Kunst, W3WM.

We received a thank you letter from the Religious Community Services for our donation for their Christmas fund.

Wes Randels, W4COW, national treasurer reported that Harry Dannals, our new national president is now living in Charlottesville, Virginia and he was visiting some of our Florida chapters in February.

Don, W4PCO reported that the QCWA Repeater sponsored by the Pelican Chapter is now operating on 145.29. All QCWA members are requested to try it when in the Tampa Bay area.

Tenny, W4WL gave a report on a code speed contest held in Ashville, North Carolina on July 3, 1939. There were five amateurs participating and Ted McElroy broke all records with a speed of 75.2 words per minute which still stands.

— Reported by Janice Neubauer, K4IJK

DAYTON-CINCINNATI CHAPTER

The Dayton-Cincinnati Chapter of the Quarter Century Wireless Association announces the 1990 Annual QCWA Banquet on Friday, April 27th, the first evening of the Dayton Hamvention.

Neil's Heritage House has an outstanding meal for us. COD bar is at 6:30 p.m. and the banquet starts at 7:30 p.m., EST. Speaker is Harry Dannals, W2HD, president of QCWA, Inc. Tickets are $14.00 each, reservations required. Come join the fun. QCWA membership is not required to attend.

For tickets or information contact Bob Dingle, KA4LAU, 657 Dell Ridge Drive, Dayton, Ohio 45429 or call (513) 299-7114.

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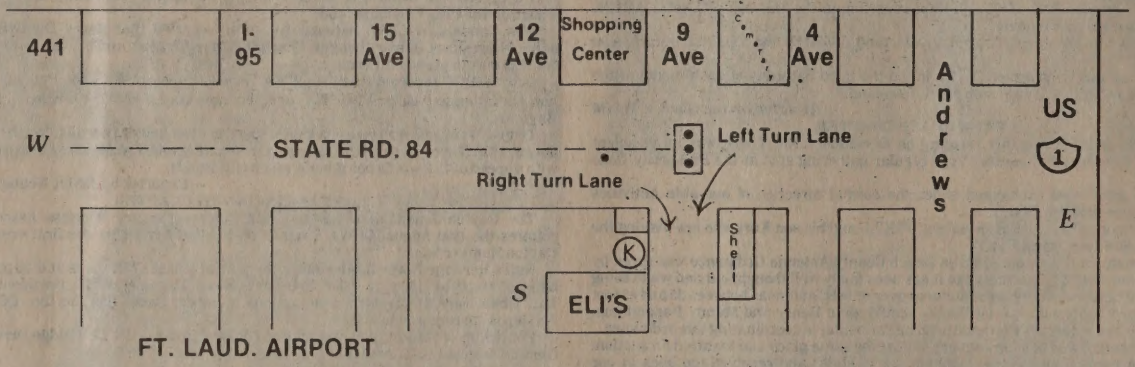

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ANTENNA ORDINANCE PALM BEACH COUNTY

By Henry L. Luhrman, W4PZV

Palm Beach County enacted this ordinance which went into effect February 1, 1990. The highlights are as follows.

Ordinance only applies to unincorporated areas.

Permit is required from building division requiring zoning approval for all antenna support structures and beams installed on those higher than 35 feet above ground. Any support structures higher than 70 feet above grade level or 15 feet above building height, whichever is greater, shall be subject to special exceptions.

All antenna support structures and the beams installed on these support structures which do not extend greater than 70 feet or 15 feet above building height are exempt from special exceptions.

All antenna support structures and the beam antennas installed on these support structures which have been constructed, installed and are operational as of February 1, 1990 shall be considered legal, non-conforming uses.

By **February 1, 1992** all legal non-conforming structures and the beam antennas installed on these support structures which extend greater than 70 feet above grade level or 15 feet above building height, whichever is greater shall acquire written certification from the zoning division. Such registration shall reflect the height and location of the antenna support structure and the beam installed on the support structure, and the date of installation and documentation of installation.

All support structures and the beam antenna installation shall conform to the minium yard setback requirements. Also no antenna support structure shall be located in the front yard. No more than one antenna support structure which exceeds 40 feet in height shall be allowed on any lot.

Complete details of this Sec. 500.44 amateur and citizen's band radio and television antennas and support structures available at the Palm Beach County Zoning Department on Belvedere Road, West Palm Beach. (Pages 129, 130 and 131 of the PBC Zoning Book).

This ordinance was put together with the assistance of Christopher Imlay of Washington, DC, Counsel for the American Radio Relay League.

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BP-23	49.00	46.00
BP-20	16.00	14.00
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NORTHWEST FLORIDA NEWS

By Robert (Bob) H. Watson, W4DTV

By the time this is published the Pensacola Hamfest will be over. Their flyer gave the information about the new location. This was scheduled for February 10th.

I had the pleasure of attending the Miami Hamfest on February 4th through 6th. It was good as always. The crowd was large and saw lots of money changing hands. Lots of "boat anchors" as well as a lot of new, good equipment. Met lots of old-time ham friends.

The NOARC overhauled their antennas for 144. 36 and 440.950 and reports are that the signals are better.

The PARC group is very busy with their plans for their upcoming hamfest in March. The flyers have been mailed out, and I picked up one at the Miami Hamfest. From all reports all space is sold out. It should be one of the better hamfests. Heard very favorable comments from some of the dealers in Miami.

The TCARC is still making plans for their future by looking into some prospective programs that may be available.

It looks like the Okaloosa/Walton Junior Community College will implement their new radio amateur classes very soon. I may have a chance to teach it. It has been suggested that when some more of the staff and others get their licenses a ham club may be formed at the college. There are indications that they may put a two-meter repeater on the air and join other college amateur groups.

Billy Williams, N4UF furnished some information that may be used to start this amateur program. Thanks again Billy, it was appreciated.

The NOARC will hold their regular scheduled FCC exams on February 10th, Saturday in Crestview.

A lot of discussion is going on about the **no code** license.

Have been informed that Roy, N4ADI, SCM NFL is planning on stepping down and not seek re-election, and that Rudy, WA4PUP has stated that he will seek this position. I know both of these hams and think Rudy will be a good SCM.

Well, I am running late with this report due to my trip to Miami, so I better close and get this mailed.

73 to all.

HOLLYWOOD AMATEUR RADIO CLUB

By Marie Snow, WA4KXQ

The Hollywood Amateur Radio Club exhibit of amateur television was well received at the February 3rd and 4th Tropical Hamboree. Many hams stopped by the exhibit booth to inquire about the ATV Program and expressed great interest in keeping current on its activities.

Tom Middleton, WB4CKY advises those who are already into ATV as well as those who are thinking about it to attend the Hollywood Amateur Radio Club monthly meetings for update information.

All was not entirely upbeat with the HARC exhibit at the hamboree. Sometime between 5:00 p.m. (closing time) on Saturday and 9:00 a.m. (opening time) on Sunday a knowledgeable intruder entered the HARC exhibit booth and appropriated the ATV Transmitter. If it had not been for the generous offer of Tom O'Hara, W6ORG to loan HARC a transmitter for the day, the club would have been "out of business." Tom O'Hara is affiliated with P.C. Electronics, 2522 South Paxson Lane, Arcadia, California 91006, specialists in ATV equipment.

HARC as a whole and particularly Tom, WB4CKY and Joy, KB4OMW Middleton, express their heartfelt thanks and appreciation to W6ORG and to P.C. Electronics for their thoughtfulness, helpfulness and generosity at this time of greatest need.

And to whomsoever was responsible for the theft or in conjunction therewith, we of HARC advise a long look in your mirror. How can you still live with yourself???

KNIGHTS OF THE KILOCYCLE

3910 kc. Sunday, 1230Z — 0730 EST

By Bob McDow, W4KOG

I'm sorry to report that Hybert "Smitty" Smith, K4CXW became a "silent key" on January 23rd, after a short illness. Smitty was a regular for many years on the Knights of the Kilocycle Net, and has been our chaplain for the last few years. Smitty and his wife Eula, K4OEP joined the Knights in January of 1959. They hold numbers 257 and 258, respectively; and have been active on the Sunday morning net ever since. Smitty will be missed by all and our heartfelt prayers and sympathy go to Eula.

Best wishes to Blanche Randles, W4GXZ and Marian Jackson, N4SLS XYL who are recovering from recent operations. Also I think Marian has recently upgraded from her novice KC4MSC, but I don't know what her new call is!! Sorry Marian.

Happy birthday to Wendy, W1UCL and please note that I didn't upgrade Wendy to W4--. Hi. Hi.

By the time you read this the Miami and Stuart hamfests will be over. We had a good time at Okechobe (?) and we're looking forward to seeing some of you in Orlando.

Any comments on the birthday of the Knights? I have pretty good proof on the Xmas Day 1930 date. What you say we start planning for a proper 60th birthday party for next Xmas and have a celebration as becomes the world's oldest continuously operating amateur radio net? Comments?? Think about it and let's hear. Either write or say something on the net.

Does anyone read this?? Let me know . . .

WHERE IT BEGAN

On June 12, 1775, in one of the first recorded naval actions of the United States, a party of Maine woodsmen, armed with pitchforks and axes, inspired by the news of the recent victory at Lexington, used an unarmed lumber schooner to surprise and capture a fully-armed British warship off the Coast of Machias, Maine.

Captured guns and ammunition from the ship were used to bring in additional British ships as prizes. American raiders soon played havoc with British shipping all along the Altantic Coast.

These actions — executed by ordinary citizens without commissions, letters of marque or legal authority of any sort — began the proud history of the United States Navy, which was officially born by order of the Continental Congress on October 13, 1775.

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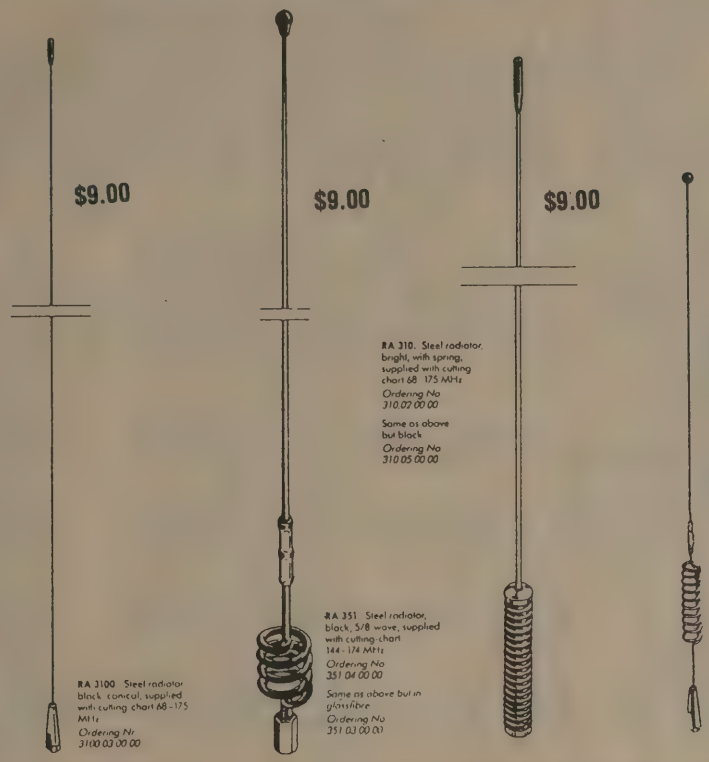

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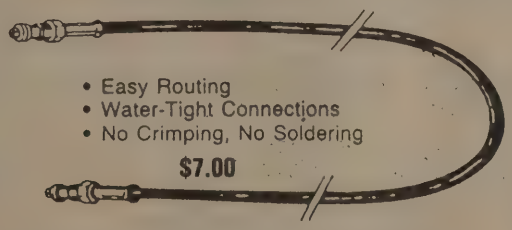

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B.A.R.D.S.

The Broward Amateur Digital Society (BARD) is a group of hams organized for the purpose to promote and offer instruction in digital communications.

BARDS is loosely run by Bill, KB4XE; Joe KB4FO; Bob, N4CU; and Jim, KD4GR. It proudly has no dues, assets nor officers. Thus, there is no business session during the meetings. They are deliberately unstructured.

Attendance varies from 15 to 40 and, when SYSOPS are present, they generally report the status of their nodes or PBBS. The balance of the agenda is formulated ad hoc to suit the needs of those present with technical discussions and answering questions.

In the past, there have been demonstrations of AMTOR, RTTY, packet and facsimile. Occasionally, someone will prepare and present a formal technical talk.

The membership recently enjoyed a "Packet Queue Picnic" which was organized by Terry, WB5JFM and held at the QTH of Joe, KB4FO on January 27th.

BARDS meets at 0900 on the third Saturday of every month. Meeting locations alternate between Racal-Milgo, Harrison Parkway and Sunrise Boulevard in Sunrise and Motorola at Sunrise Boulevard and University Avenue in Plantation. The March 17th meeting will be held at Milgo.

All interested in amateur digital communications are invited to attend. Talk-in for Milgo meetings is on 144.67/5.27 and for Motorola locations on 146.19/.79.

For additional information contact: Bill, KB4XE, 752 3908 in Coral Springs or by packet at KB4XE @ KB4XE, SUNFL. USA. NA. de KB4XE.

SKIP ON TAPE FOR SIGHTLESS

This NOTICE is to advise all concerned that according to Ms. Desaree Stewart of the Library for the Blind, P.O. Box 2299, Daytona Beach, FL 32015 Phone 1-800-342-5627 that FLORIDA SKIP is put on tape each month. These tapes are offered for the asking with postage paid both ways. Miss Stewart advised that when SKIP closed down while Ye Editor was sick, all SKIP addresses were removed from the computers and now a new list will have to be built up again. So if you know of anyone (sightless) who would like to be put on this list, write or call and give them your mailing address as soon as possible.

YOUR HAM LICENSE

When was the last time you looked at your amateur license? Do you know when it expires? You should! Even with a two-year grace period, time slips by fast. If you do not know when your ticket runs out, I would suggest you find it now and make a note of it.

This all leads up to one point, if you need a FCC 610 Form **Florida Skip** can supply you with one or two provided you send us a number 10 (10-inch) evelope, self-addressed and stamped to: Skip 610, P.O. Box 501, Miami Springs, FL 33266.

The Miami FCC Field Office was kind enough to send us about 200 forms recently to pass out as needed. Play it safe . . . check your license now.

NEWS RELEASE

Radio frequencies are getting scarce all acorss the country. Most under the control of FCC or Commerce Department are already spoken for by government, television, ham radio operators, mobile phone users, others.

And a surge of new uses coming along: VCR's with wireless links to TV's around the house. Mobile computers run through cellular networks. Home security systems with outdoor cameras that beam pictures to your T.V.

So look for charges for obtaining frequencies by the mid-'90's . . . perhaps sales or user fees . . . recognizing that they are a scarce resource.

Signal sharing . . . just as closed-captioning is piggy-backed by T.V.

And opening up government-only frequencies to limited private use.

(From Kiplinger Washington Newsletter)

FLASH! SHUTTLE LAUNCHED FEBRUARY 16th CARRYING AMATEUR RADIO

By Walt, W4DWN, No., 1184

Basic Data: Period 88.57 minutes. Inclination 62 degrees. Known as STS-36 in low earth orbit (100 miles).

JAMSAT LAUNCHES NEW SATELLITE

February 6, 1990 JAMSAT launched a new satellite. Beacon was heard in the United States. Beacon frequencies are 435.795 MHz and 435.910 MHz in C.W., three number group. Two modes of operatioin J.A. SSB and J.D. packet-C.W. Will be a short time before open to general use. Will be named FUJI-OSCAR 20. Check AMSAT Net, 9:00 p.m., Tuesday, 3940 KHz.

AMATEUR RADIO EQUIPMENT SERVICE

(clip and save)

By Carl Zelich, AA4MI

Where do you even begin to look for a customer service or parts telephone number if your equipment needs servicing? Well, here's a handy list that was compiled by Pete Kemp, KZ1Z.

AEA	Customer Service	(206) 775-7373
Alinco	Customer Service	(213) 618-8616
	Fax	(213) 618-8758
Ameritron	Customer Service	(419) 531-3024
Azden (Am Whole)	Customer Service	(404) 769-8706
	Repair (2-4 p.m. only)	(404) 769-8706
	Fax (7 p.m.-10 a.m.)	(404) 769-7970
B&W	Customer Service	(215) 788-5581
Butternut	Customer Service	(512) 398-7117
Cushcraft	Customer Service	(603) 627-7879
ETO	Customer Service	(719) 260-1191
	Fax	(719) 260-0395
Hy-Gain	Rotor Parts	(402) 465-7021
	Antenna, Tower and Parts	(402) 465-7022
	Technical Assistance	(800) 328-3771
ICOM	Customer Service	(206) 454-7619
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	Fax	(206) 454-1509
JRC	Customer Service	(212) 355-1180
Kenwood	Customer Service	(213) 639-7140
	Parts	(213) 639-9000
	Fax	(213) 609-2127
MFJ	Service and Parts	(601) 323-5859
Telrex	Customer Service	(201) 775-7252
Ten-Tec	Service and Parts	(615) 453-7172
Yaesu	Service	(213) 404-4884
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CLIP AND SAVE

1990 AMATEUR RADIO CALENDAR

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- C.Q. and ITU World Zone Maps and prefix/zone lists.
- ARRL United States and Canadian sections and VHF grid locator.
- Russian prefix, zone and oblast lists.
- Moon phase, eclipse and meteor shower data.
- United States amateur bands, modes and power limits — 160m-23cm.
- With contest and D.X. reference aids.

Write to: KB1T Radio Specialists, Box 1015, Amherst, New Hampshire 03031.

NEGATIVE THOUGHTS ARE LIKE SPLINTERS FASTER IN THE MIND"" FEAR BRINGS MORE PAIN THAN THE THING IT FEARS...

ALL GREAT ACCOMPLISHMENTS HAVE A SIMPLE BEGINNING. Via W4GGQ

JANUARY 4, 1983

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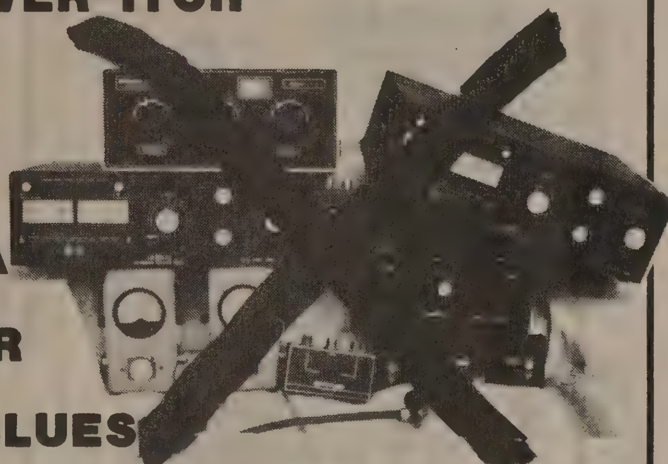

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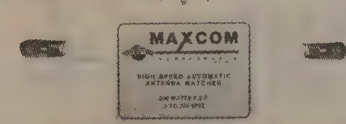

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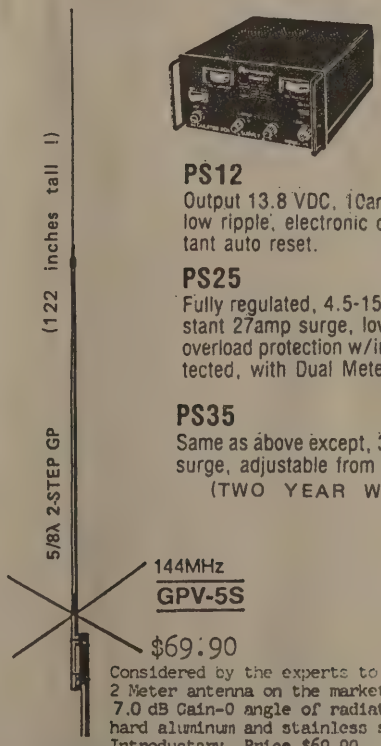

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THE F.C.C. INFORMATION PAGE

BOCA RATON AREA EXAMS

FCC exams are given by the IBM Radio Club at the IBM Facility in Boca Raton. Exams are scheduled for the first Friday of the month at 5:00 p.m.

Bring a photocopy of your license, positive identification and $4.75 to cover the fee

Contact Pete Brunet, WS4G during working hours at 982-3885 for more details.

The Siemens Amateur Radio Club is sponsoring an ARRL/VEC coordinated exam session on January 19, 1990 at 17:30 hours. The exams will be given at the Boca Raon facility of Siemens Public Switching Systems, Inc., 900 Broken Sound Parkway Northwest, Boca Raton, Florida.

Pre-registration is recommended, but walk-ins are accepted if testing materials are available.

Contact Ron Diego at (407) 994-7168 during business hours for more information or to pre-register.

BROWARD COUNTY

CAVEC exams by Racal-Milgo in Sunrise twice per month on the first Saturday at 8:45 a.m. and on the third Thursday at 7:30 p.m. at 1601 North Harrison Parkway (Northwest 136th Avenue).

No pre-registration required. Bring with you your original license, a photocopy of that license, the original of any credit certificates and a piece of photographic identification (driver's license okay). There is a fee of $2.00 except novice, which is free.

Talk-in on 145.27 and 224.84 repeaters.

For further information call Chip Allen, AK4Y (home) 476-8761 or (work) 476-4763; or call Joe Lowey, KF4FO (home) 434-8211 or (work) 476-4567. From Dade County, during business hours only, 592-8600. Ask for extension 4321 or 4697. For recorded information (24 hours) 476-4444.

ARRL/VEC exams by Consolidated V.E.'s of Brevard County — Room Q-22 — Florida Institute of Technology — Melbourne — 10:00 a.m. (check-in 0930) — third Saturday of every month.

No pre-registration required. Form 610 provided. Bring original and photocopy of current license.

For information contact Victor Lau, N4FUY at (407) 768-0888.

CITRUS COUNTY

License exams are scheduled for the third Saturday in the odd numbered months at 8:30 a.m. at the Citrus County Emergency Operations Center on West Southern Street in Lecanto. (West off C.R. 491, one-quarter mile north of S.R. 44.)

Reservations preferred, walk-ins accepted while supplies last. Bring original ham license and photocopy, certificates for prior exam credits if any, photo identification as driver's license, pen and pencils and $4.75 fee. No exams in Jan 1990.

Phone Cotton, KB9LT at (904) 344-8322 for reservations or further information.

HERNANDO COUNTY EXAMS

The Hernando Volunteer Examining Council (HERVEC) with Clover Leaf ARC and Spring Hill ARC co-sponsors are conducting monthly exams novice through extra, each third Wednesday of the month at 6:00 p.m. at Springfield High School in Spring Hill. The Clover Leaf Visitor's Center in Brooksville is the alternate exam site.

Walk-ins are welcome.

For information contact Paul Sauer, K4ZC at (904) 683-3167.

NORTH DADE — SOUTH BROWARD AREA

FCC exams are given on the fourth Thursday of each month by a W5YI-VEC team at 6:30 p.m. prior to the regular monthly meeting of the Fellowship Amateur Radio Club at Ingall's Park in Hallandale at 735 S.W. 1st Street.

No charge for novice . . . all others $4.95.

Bring the original of your license and a photocopy and positive identification.

For more information call Howard, N4EBT at 935-5214; or Norm, K4RBR at 823-5437 (evenings).

DADE CITY AREA

The East Pasco Amateur Radio Society will conduct W5YI-VEC exams, technician through extra class (novice by reservation only due to time limitation), on the third Wednesday of each month (except December) at 602 East Meridian Avenue, in the Tampa Electric Company Conference Room (two blocks east of Highway 301), Dade City, Florida at 6:30 p.m.

Bring the original and a photocopy of your current license, photo identification and $4.75 fee.

We also conduct exams, by appointment, for those with special needs and whose schedules conflict with normal exam lessons.

Contact Ed Privette, AB4PY at (904) 583-4580; or George Mann, KJ4UW at (904) 567-6300 or (904) 567-9594

HIALEAH

W5YI coordinated test — novice through extra, every third Saturday of the month at 8:00 p.m. Location is 750 East 25th Street, Hialeah, second floor. Dates are January 21st, February 18th and March 18.

Pre-registration recommended. Walk-in on test available basis, Fee is $4.75.

Contact Ivan Prada, KP4EDL, P.O. Box 3576, Hialeah, Florida 33013 or (305) 829-0602 (7:00 p.m. to 9:00 p.m.).

DADE COUNTY AMATEUR RADIO EXAMINATIONS

Exams will be held at the Dade County Emergency Operations Center, 5600 S.W. 87th Avenue, Miami, Florida 33173, at 9:00 a.m. on the second Saturday of the month.

Walk-in exams on test available basis. Bring a photocopy of your current license, photo identification, pen and pencil and a $4.75 check payable to ARRL/VEC. FCC Form 610 available at exam.

For further information contact Tom Sherwood, AL7HW at 255-3170 after 5:00 p.m.

OCALA/CENTRAL FLORIDA

W5YI exams are held each month (except November and December) on the last Thursday, 7:30 p.m. at the St. Patrick's Episcopal Church, 2802 N.E. 7th Street, Ocala, Florida.

All exams, novice through extra, are given on a walk-in basis. Fee is $4.75. Novices are free. Talk-in is available on 145.130 repeater.

For information contact Jim, KA2MBE at (904) 236-0744; or Joe, KA4WJB at (904) 351-0985.

MARION COUNTY

W5YI exams — novice through extra, every second Monday at 7:00 p.m., Marion County Government Complex at the corner of Southeast Ft. King Avenue, and Southeast 25th Avenue.

Talk-in on the 146.61 K4GSO repeater, Silver Springs Radio Club, Ocala, Florida.

Contact Jim Brenner, NT4B at 237-5783; or Walt Morris, K4ELK at 245-7254 for information.

PENSACOLA

FCC exams are given the third Thursday of each month at 5:00 p.m. Location is the cafeteria of the West Palm Florida Hospital, on North Davis Highway.

For further information contact Rick Lloyd, AA4W; or Bill Behrends, WA4YRN.

FORT MYERS A.R.C.

The Fort Myers Amateur Radio Club will hold their next V.E. program on March 16, 1990 at 7:00 p.m. The location is the Hughes Snell and Company, 1470 Royal Palm Square Boulevard, Fort Myers.

Pre-registration is required. The 610 Form, a copy of license and $4.95 must be sent to: Egon Loeckel, N8EL, 237 S.E. 20th Court, Cape Coral, Florida 33990. For information call (813) 772-2308.

CENTRAL FLORIDA V.E. COUNCIL

Exams will be given the second Saturday of the odd numbered months at 9:00 a.m. in the Fellowship Hall of the First Presbyterian Church of Maitland. The church is located on the northwest corner of George Avenue and 17-92, one block north of Horatio Avenue in Maitland.

The dates are: May 12th, July 14th, September 8th and November 10th.

CAVEC will sponsor these tests and the cost will be $4.00. Walk-ins accepted.

For more information call Roy Mackey, N4ADI at (407) 644-5905.

LAKE COUNTY/CENTRAL FLORIDA

FCC exams are given on the third Saturday in the odd numbered months at 9:30 a.m. The location is the Lake Amateur Radio Association Club house just west of Tavares, Florida. Go two miles west of Tavares, Florida, on Highway 441 to C.R. 473. North one mile on C.R. 473 to the Haines Creek Baptist Church. The clubhouse and 180-foot tower are behind the church.

Walk-ins permitted. Bring original ham license and photocopy, certificates for prior exam credits, positive identification and $4.75 fee.

Talk-in on 147.255, K4FC repeater.

Contact Paul, K3NON at (904) 343-8729; or Millie, KQ4R at (904) 343-0075.

AUBURNDALE, AREA

W5YI exams are to be held on the third Saturday of each month starting at 9:00 a.m. They will be held in the First Presbyterian Church on 410 Pilaklakaha Avenue (PK Avenue), Auburndale, Florida — between Winter Haven and Lakeland on Highway 92. Turn off 92 on Ariana Avenue, go two stop signs, turn left on PK . . . second building on right.

Walk-in excepted/reservations appreciated. $4.95 fee. Tech through extra. Reservations for novice.

For information contact Bill Loop at (813) 967-5952.

WEST PASCO COUNTY

The Gulf Coast Amateur Radio Club is sponsoring ARRL/VEC exam sessions — novice through extra — on the first Tuesday of each month at 6:30 p.m. Location is the Adult Education Center, 1510 South Boulevard, New Port Richey.

Walk-ins accepted on a materials available basis. Pre-registration strongly advised.

Bring original and photocopy of current amateur radio license, positive identification, check for $4.95 payable to ARRL/VEC (no fee for novice exam) and original and photocopy of any CSCE. Form 610 will be furnished. Talk-in on 146.67 (Tx-600).

For information contact Fred, AA4FG at (813) 849-1224, or Ralph, W2GLW at (813) 842-8351.

WEST PASCO COUNTY

The Suncoast Amateur Radio Club is sponsoring W5YI-VEC exam sessions on the fourth Tuesday of each month at 7:00 p.m. The exam location is the Pasco County Building, 530 Sunset Road, New Port Richey (just east of U.S. 19 one mile south of the Pithlachascotee River Bridge).

Pre-registration deadline is the Saturday preceding the exam date, thereafter, walk-ins will be accepted on a materials availability basis. Talk-in on 145.350 (Tx-600).

Remember, effective January 1st, the fee is $4.95 for tech through extra exams.

For registration and/or information call Marv Borngraber, WC2G at (813) 938-7810.

PALM BEACH

Palm Beach Amateur Radio Council and Palm Beach Community College Amateur Radio Club are giving amateur radio license tests the third Saturday of each month at 9:00 a.m. at Palm Beach Community College, 4200 Congress Avenue, Lake Worth, Florida, Criminal Justice Room 101, for $4.75.

Walk-ins permitted as long as we have test materials available.

Next tests are June 17th; July 15th; August 19th; September 16th; October 14th and 15th at hamfest at South Florida Fair Grounds on State Road 80; November 18th; and December 16th.

For information call Graf Buckenmaier at (407) 582-7617.

PANAMA CITY, FLORIDA

January 13th, April 14th, July 14th and October 13th at 10:00 a.m CST, 9:30 a.m. for all walk-ins — Civil Defense Building, 644 Mulberry Avenue, Panama City, Florida — Main Conference Room. No cash. Make checks payable to: ARRL/VEC. No charge for novice. All other classes will be $4.95. For more information contact Charles Hickman, N4DPU. 2402 West 21st Street, Panama City, Florida 32404; telephone (904) 785-0449.

DUNEDIN — TAMPA BAY AREA

W5YI-VEC coordinated amateur radio exams are conducted by the Dunedin ARC/VE testing team on the first Monday of every month. If the first Monday is a holiday, then the tests are held on the second Monday.

Testing begins at 7:00 p.m. in the Foreign Language Building, Number 99, Dunedin High School, 1615 Pinehurst Road, Dunedin.

Remember to bring with you, two forms of identification, originals and copies of your license and CSCE's if any and the $4.95 fee required for the tech through extra exams. Talk-in on 145.110 or 145.310 (Tx-600).

For registration and/or information call WC2G at (813) 938-7810 or W8RH at (813) 535-2034. Mailing address is: P.O. Box 1851, Dunedin, Florida 34697.

TAMPA EVENING TESTING

W5YI-VEC exams will be held the last Thursday of each month at 7:00 p.m. (except November and December). Sessions will be replaced by one date in early December due to holidays. (Phone for exact date during November.)

Testing location is the second floor of the American Red Cross Building, 217 North Howard Avenue, Tampa.

Novice exams are free. All others $4.75 cash. Bring with you the original and a photocopy of your current license and original and photocopies of CSCE's, if any.

To resolve questions or obtain holiday season dates contact Scott, KA4FRO at (813) 685-2514.

WEST PALM COUNTY

The Palm Beach Amateur Radio Council, Inc., is giving amateur license tests on each third Saturday of each month (except October) at Palm Beach Community (Junior) College, 4200 Congress Avenue, Lake Worth, Criminal Justice Room 101 at 9:00 a.m.

The tests are given under the ARRL-VEC and currently cost $4.55. Walk-ins permitted as long as we have test materials available. Pre-registration strongly advised, except for code testing.

Next tests for 1989 will be September 17th, November 19th and December 17th. The October tests will be given on October 15th and 16th at 9:00 a.m. at South Florida Fair Grounds, PBRA Hamfest, 9067 Southern Boulevard (State Road 80), West Palm Beach, Florida.

V.E.C. 1990 EXAM SCHEDULE

Fort Walton Beach:

ARRL/VEC exams by Playground ARC, are held quarterly at the clubhouse — 17 East First Street, Fort Walton Beach. The 1990 dates are March 10th, June 9th, September 8th and December 8th. Doors open at 8:30 a.m. Walk-ins are welcome. Fee is $4.95. For futher information contact Bill Hord, W4WIJ at (904) 243-9720; or Hal Byrd, WG4X at (904) 243-0882.

Crestview:

FCC exams are given the second Saturday of each third month (February, May August and November) at 9:00 a.m. at the Council on Aging Building, 298 South Wilson Street, Crestview, Florida. Fee is $4.00. Walk-ins welcome. Bring original and copy of license, and a photo identification. For more information contact Bill Pate, WB4ORK. Route 1, Box 189, Crestview, Florida; telephone (904) 682-0539.

PORT SAINT LUCIE AREA

Fort Pierce, Florida • Saint Lucie County

The Fort Pierce ARC is sponsoring ARRL/VEC's each month on the fourth Saturday, at the Saint Lucie Emergency Operations Center. Go west of I-95. Pass Highway 713 to Rock Road. It is on the right-hand side.

Register at 9:00 a.m. and the test will be given at 9:30 a.m.

Call Bill Shisler, W3DHN for information at (407) 466-5648.

PRE-REGISTRATION REQUIRED FOR EXAMS AT HAMCATION

FCC exams will be given on Sunday, March 25, 1990 at the Orlando Hamcation in the Orange County Civic Center at 10:00 a.m.

To pre-register you must send: (1) completed 610 Form; (2) a copy of your FCC license; (3) copies of any CSCE's; (4) a list of test(s) you want to take; and (5) a $4.00 check made to R.V. Mackey/CVE.

Mail these five items to: R.V. Mackey, N4ADI, P.O. Box 941598, Maitland, Florida 32794. They must be mailed before March 10th and you will receive a numbered registration receipt for your test(s). For information call N4ADI at (407) 644-5905.

Remember, tests by pre-registration, only! Good luck.

PARKLAND AREA

The Siemens Amateur Radio Club sponsors ARRL/VEC coordinated exams the third Friday every month at 17:30 hours, except December which will be the second Friday. The tests will be given at the Spanish River High School, 5100 Jog Road, Room 8207, Boca Raton.

Pre-registration is recommended, but walk-ins are accepted if testing materials are available. Novice exams are free . . . all others are $4.95.

Bring a photo identification, your original license and a copy and the original and a copy of any CSCE's. All forms are provided.

Contact Ron Diego at (407) 994-7168 during business hours or (407) 487-1726 evenings and weekends for more information or to pre-register.

PALM BEACH

Palm Beach Amateur Radio Council and Palm Beach Community College Amateur Radio Club are giving amateur radio license tests the third Saturday of each month at 9:00 a.m. at Palm Beach Community College, 4200 Congress Avenue, Lake Worth, Florida, Criminal Justice Room 101, for $4.95.

Walk-ins permitted as long as we have test materials available.

Next tests are October 13th and 14th at hamfest at South Florida Fair Grounds on State Road 80.

For information call Graf Buckenmaier at (407) 582-7617.

SUCCESSFUL LAUNCH OF SIX AMATEUR RADIO SATELLITES

By Walt, W4DWN, AMSAT No. 1184

January 21, 1990 saw the launch of two U-SAT satellites along with four low earth orbiting satellites known as MICRO-SATS.

The MICRO-SATS are small nine-inch cubes weighing less than 25 pounds. Basic structure of the MICRO-SATS is a cube of five stacked aluminum trays. The receiver, special experiments, computers, power supplies and transmitters are each housed in separate trays. All other surfaces are covered with silicon solar cells. The four MICRO-SATS combine educational, experimental and scientific missions in low earth orbit.

With the launch the six satellites are called OSCARS 14, 15, 16, 17, 18 and 19. As of this writing each satellite is being programmed and tested preparatory to being placed into general use. They should be ready by the time you read this.

If you have any questions please write: AMSAT, P.O. Box 27, Washington, DC 20044. Also, you may get information from the 9:00 p.m., Tuesday, AMSAT Net on 3940 KHz.

DRAKE SERVICE DEPARTMENT

For those of you who are Drake users, as Yea Ed is, here is some information we received from William A. Frost, service manager (P.O. Box 112, Miamasburg, NH 45342). I was very pleased with their service and surprised at the quick turn around!

"We can service about any product we ever produced from the 1A receiver to the TR7A. We have five technicians that work solely on amateur products. We have most parts available for any amateur products. Except some cosmetic parts like front panels for 2A's, 2B's, etc., and products produced back in the '60's.

"We may not have the exact replacement part on some controls and switches, but we can usually find a workable substitute.

"Tubes are becoming scarce and expensive. We will continue to supply parts as long as we can obtain same at a reasonable cost.

"We are open five days a week, Monday through Friday, 7:00 a.m. until 3:30 p.m., with reduced staff until 5:30 p.m. We accept MasterCard, Visa and American Express. Call for parts or service at (513) 866-3211 or fax (313) 866-0806."

RATE CARD INFORMATION

HAMBAR service of electronic equipment only is available to all subscribers, amateurs and non-amateurs at the rate of 10 cents per word, which includes address, call sign, etc. Minimum charge for any HAMBAR is $3.00. All commercial and non-subscribers rate is 15 cents per word. Minimum charge of $5.00 for each HAMBAR. No reruns. Each HAMBAR must be resubmitted each month. No ad will be published unless accompanied by full remittance! We require all HAMBAR ads contain the full mailing address, call sign, zip and area-phone number, if any. Make it easy for person wanting to buy your equipment. No HAMBARS via telephone!

COMMERCIAL DISPLAY

Full-page $125.00. Half-page (1/2) $80.00. One-quarter (1/4) page $55.00. One-third (1/3) page $70.00. One-eighth (1/8) page $40.00. Camera ready. Lay-out, make-up and typeset fee is extra according to size of ad and typeset required for same.

Deadline for all HAMBARS and ads, eighth (8th) of each month in P.O. Box 501, Miami Springs, Florida 33266. Normal mailing date 25th of each month. Thank you for your cooperation.

— Editor.

FOR SALE: ICOM O4AT- 440 MHz hand held, excellent condition $225. Gene Stern KC4FA, 3666 Coral way, Miami FL 33145 call 9 to 3 work days 305 445-1345.

SUCCESS COVERS A MULTITUDE OF BLUNDERS! . .

CUSHCRAFT 10 meter mono-bander Ten-3 element Yagi 8dB gain 22 dB F/B new in box $77.50. Shipped. 10 meters vertical $15. Wanted aluminum crank-up tower - Drake TR-7 and acessories, will SWAP/Buy. Geo Collins WD4PSK, P O Box 11132, St. Petersburg, FL 33733 813 321-3463.

SALE: SWAN WM-1500 watt meter $25. CW/RTTY Interface with software for Apple II $35. TS-700A 2 Mtr all mode transceiver $275. or trade for 2 mtr mobile. Winky AD4M, 7671 NW 10 St., Pembroke Pines, FL 33024 305 961-8613.

FOR SALE: THREE SECTION TOWER, perfect shape, 2 years old $350. Need later collins gear, S-Line KWM II etc. John Broscella W2LEC, 5795 La Paseos Dr., Green Acres City, FL 33463 407 439-0711.

A SMART GIRL IS ONE WHO DOESN'T TRUST A HUSBAND TOO FAR OR A BACHELOR TOO NEAR....

QSL SUPERMARKET, TOP QUALITY, BEST PRICES. $1. refundable brochure and samples. Don Ellis K3LQQ, 84B Chapel, Zephyrhills, FL 33544 813 973-1238.

SALE: T-140 Aluma-Tower $400. Channellmaster Deep fringe area TV antenna $100. and 0064C amplifier $30. MFJ-752-B signal enhancer $65. AR-22R antenna rotor & control box, needs service $30. AV-5 Cushcraft vertical antenna $80. Function meter, exact No. 251, needs service $50. B&K 415 solid state sweep marker generator, cables and book $225. Alliance 73-HD serviced and comes with new base control $80. Hy-Gain Telex TH7JRS 3 Ele. beam $150. Mili-Ohmmeter Keithy No. 502, needs batteries and calibration $75. HF Antenna mount, 3HD magnets and hardware, made by Lakeview Antenna, never used $20. All offers considered. Pick up only. Fred Sarg N4WLM, 3306 First Road, Vero Beach, FL 32968 407 778-0784.

FOR SALE: AEA Pakratt, model PK-74 with HFM-64 modem installed. MBA-TOR disk included and all manuals. $125. Neil Spencer W4PC 4665 75th Ave., North Pinellas Park, FL 34665 813 546-8711.

IMAGINATION: SOMETHING THAT SITS UP WITH DAD AND MOM THE FIRST TIME THEIR TEENAGER STAYS OUT LATE ! tks W4ZGG.

REPEATER and Communications Trailer for Sale. Hillsborough Amateur Radio Society, Tampa, Repeater is a Micro Control Specialties Mark 3CR with new KPR 5000 processor and audio boards. Includes 120 watt Mirage amp. cavities, 120 feet of hard line and Hustler G7 base antenna. Currently operating 147.075 in Tampa. Trailer is custom made for portable communications and includes 30 feet Rohn tower, rotor. Contact Sam KY4G, 813 - 935-7887 Tampa after six o'clock weekdays or write WD4-MQT 4617 Georga Rd., Tampa, FL 33634.

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RECEIVE 118 TO 173.995 MHZ.

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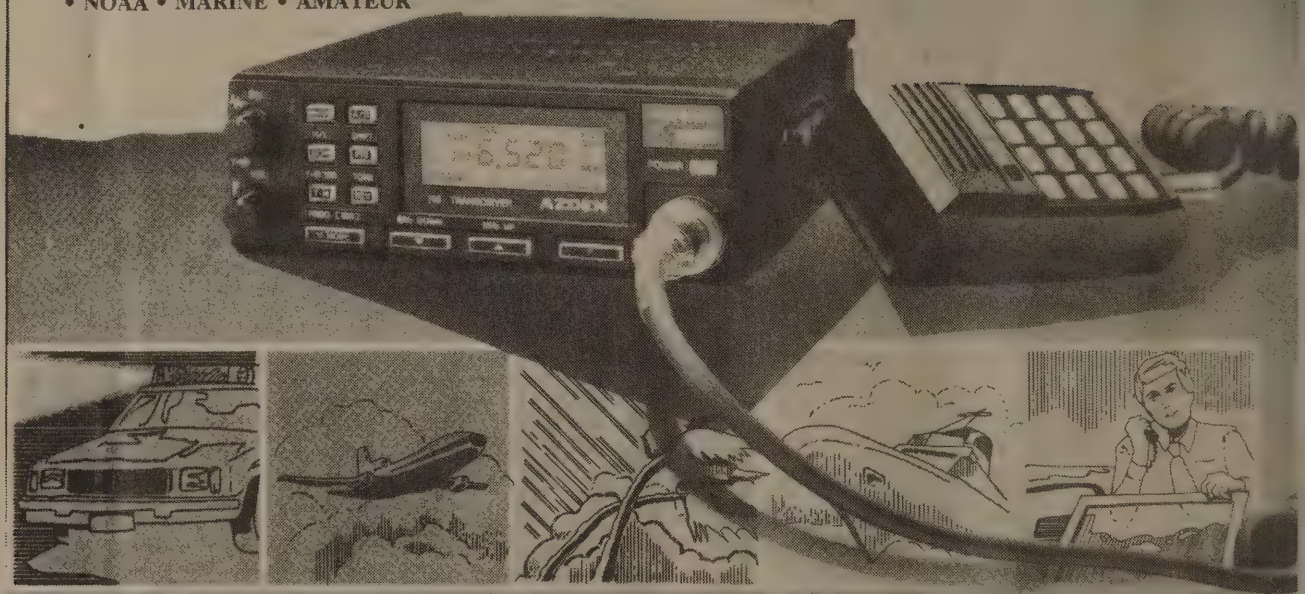

LISTEN TO YOUR VISITORS FLIGHT ARRIVE AT THE AIRPORT, TO NOAA WEATHER, AND TO PUBLIC SERVICE, POLICE, FIRE, FORESTRY AND MARINE FREQUENCIES

MODELS: PCS-6000H 50 WATTS!! *Also coming soon PCS-6200 220MHZ, PCS-6300 70CM and PC-10 10 Meter FM Handheld.* **CMOS AND ADVANCED SURFACE MOUNT TECHNOLOGY PROVIDE UNPRECEDENTED COMMERCIAL QUALITY AND RELIABILITY.**

UNPRECEDENTED WIDE REQUENCY COVERAGE: The PCS-6000 receives 118.00 to 135.995 MHZ AM Aircraft/136-173.995 MHZ FM and transmits 140.100 to 150.000 MHZ. Modifiable to **ALL** MARS and CAP frequencies (proof of authorization/license required)

TINY SIZE: Only 2 inches high, 5½ inches wide and 7¼ inches deep!! Easily fits anywhere, even in the smallest car!

20 CHANNEL MEMORY IN TWO BANKS PLUS 1 TEMPORARY CHANNEL (TM): Two memory banks, A and B have 10 memory channels each. The memories store frequency, shift width, offset information, and PL tone frequency as programmed. *An extra memory channel (that we call TM-temporary memory) is provided to allow you to store any operating condition instantly again and again!!*

UP TO 21 NONSTANDARD SPLITS: Program any split in any channel.

VERSATILE SCANNING FUNCTIONS: Dual memory scan, programmable band scanning, hold scan and delay scan functions are provided, with selectable delay time. **ALL** memory channels are tunable independently.

PRIORITY CHANNEL MONITORING: Memory Channel 90(the first channel in memory bank B) is monitored every four seconds regardless of any operating condition. When a signal is received, a beep is heard.

DISCRIMINATOR CENTERING (AZDEN EXCLUSIVE PATENT): Always stops on frequency desired when scanning.

PROGRAMMABLE FREQUENCY STEPS: In memory, frequency steps can be set at 5KHZ to 20KHZ in any increment.

BUILT-IN PROGRAMMABLE TONE ENCODER: 37 different tones are built in for instant programming of PL tones into memory channels and microcomputer. Tone frequency can be entered independently in RX and TX. A tone decoder is available as an option.

LITHIUM BATTERY BACKUP: Memory information can be stored for up to 5 years even if power is removed.

FREQUENCY REVERSE: Allows you to listen to repeater input frequency.

FEATHER-TOUCH TUNING CONTROL KEYBOARD: The LED backlighted light touch keyboard performs all tuning operations simply by pushing the key(s) and key actuation is audibly verified

LARGE LCD (LIQUID CRYSTAL DISPLAY): The LCD display shows the operating frequency, S/RF, memory channel in use and various other operating functions. The LCD is back-lighted by green LEDs, making it possible for you to read the display even in total darkness.

FULL 16 KEY TOUCHTONE PAD MICROPHONE: DTMF Microphone functions as auto-patch when transmitting.

DIGITAL S/RF METER: Shows incoming signal strength and relative transmitter power

MICROPHONE CONTROLS: Up/Down memory and frequency control

TRUE FM, NOT PHASE MODULATION: Unsurpassed intelligibility and audio fidelity. High/Low Power: 25W/45W or 5W/10W (6000/6000H). Output-Fully adjustable.

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OTHER FEATURES: Rugged dynamic touchtone DTMF microphone, built-in speaker, mobile mounting bracket, remote speaker jack, and all cords, plugs, fuses and hardware are included.

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MIKE'S 1990 NEW YEAR SPECIALS*

*QUANTITIES MAY BE LIMITED, SALE ENDS 3/31/90

ICOM	REG.	SALE
IC-228A	$509	$362.90
IC-28H	$499	$373.90
IC-228H	$539	$416.90

The ICOM MOBILE 2 METER rigs listed above have 21 memories, tone,scan, ttn mic, large lcd display, plus. IC-228A 25 WATTs, IC-28H 45 WATTs, IC-228H 45 WATTs

WB4RFC

MIKE SPIVAK

(305) 491-7110

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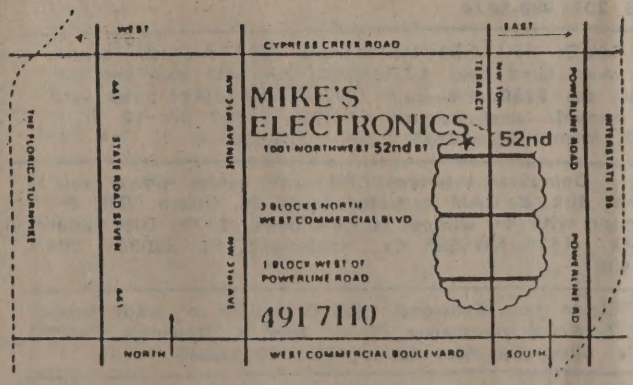

FOR SALE: Goulds Brush 200 8 channel Pen Recorders (make offer.) Motorola 100W FM base station 155 MHz $75. Collins 32V2 for restoration or parts $50. Phelps Dodge hardline connectors 7/8" to N-Female $12. each.H. P. VHF signal generator 608D plus manual $200. New 208 ti 240/120 - 30 amp isolation Xfmr, offers. Lambda power supplies: 5 V at 18 Amps, 24/28V at 10 amps & 24V at 15A, offers. Tek Scopes 545, 585 RM45A offers. H.P. S.H.F. signal generator 1-11 gHz, offers Dynec freq. standards synthesizer 2654A offers. Old QSTs (Send SASE for list. 1930 ARRL Handbook 7th edition V.G. $35. R-390/URR manual and schedmatics $35. Large mint GE/ syre stydui nike,circa 1947 $40. Used 15 amp isolation Xfmr (heavy) offers.WANTEED: Federal Radios, Parts & restoration help. VT-2 (working). Loose coupler, old wireless gear. Glen Fritz N4WDX, 1st Place, Vero Beach, FL 32962 407 569-0587 evenings.

TOWER WORK FOR HIRE. safe experienced tower climber. Like to erect or dismantle a tower? Need to change rusty tower hardware, coax, rotor, or guy cables? Want to replace rotor or antenna? I own a full set of tower tools : safety belt, gin pole, winch ropes, etc. Fellow ham for nine yrs. Reasonable fee. Prefer Broward, Dade and Palm Beach Cou - ties. Call Mark Lavalle N4XGZ, 1900 North 39th Ave. Holly wood, Fl 33021 305 961-2642.

SELL FT-77 HF W/WARD 200. watts $300. ICOM window mt. 5dB $25. Kenwd spkr mike $20. PL encoder/decoder TS-32 $30. three steel.... Tempo S-5 2M handie $80. Kevin Poslusny KJ4PR, 11014 SW 154 Terr. Miami, FL 33157 305 235-6727.

HEATHKIT HR-1680 HX-1681 - HS1661 PS1681 Heath Electronic keyer, all factory checked, mint condition, manuals. 100W CW 10 to 80 - cost over $600. asking $300. Heath DeLuxe QRP - 4 watt all band, power supply spkr HM9 watt meter, HD1418 active audio filter HFT 9 Ant. tuner cost over $575. W/all manuals . mint, asking $250. Heath HD-3030 terminal controller W/Hamtex to Commodore 64 soft ware, mint condx, manuals. Cost over $300. ask $100. CW & RTTY indluding Mark & Space unit. Floyd W. Hershner WB4CEX, 2960 Galoxy Ln., Lakeland, FL 33801 813 666-1104.

SELL: HY-Gain Discover 7-2 sells new for $559. sacrafice at $200. Pick up only. Geo Sperry W4UKA, 635 SE 1 9th St., Ocala, FL 32671 904 732-3364.

ESTATE SALES: Like new Kenwood TS940S with manual $1675. Yeasu FT-101, etc speaker $19. Heath SB-200 amp with manual (EX-K4BLM') Drake L4B amp., like new with manual (EX-K4BLM) $725. Yeasu Lanliner Phone Patch/Speaker, excellent $69. ICOM IC3PA 12.8VDC regulated power supply, in box $38. Drake DL-300 dummy load 1:1 max. 0-30MHz 1.~ 5:1 30-160 MHz $49. Omega Noise bridge mod.7-02, 115VAC $30. Can ship UPS Andy Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874.

FOR SALE: HF 10-80 Mtr Tempo 2020 excellent condx. $295. Also hand held AZDEN-300 with ext mic and all leather case $150. Hy—Gain 14AVQ/WBS 10-14 mtrs vert. with manual. Israel Cabrera KC4)BZ, 11757 SW 18 St. No. 3, Miami, FL 33175 305 221-6635.

SALE: Computer Interface CP-1 with cables, power supply, program disk & RAM cartridge for C-64. Instant CW, RTTY & Amtor with or without a disk drive. $125. Dick Zdunczyk K4GMX 1625 NW 9th Ct., Homestead, FL 33030 305 248-5496.

WANTED to buy Kenwood R-5000 receiver or trade brand new FT-747GX transceiver 80-10. Jean B. Desautels K4VGD 616 N. Silver Cir. Key Largo, FL 33039-3840.

TEN TEC HERCULES 444, $750. OMNI D, series B with band mods, Ron-Lee AGC, CW filter, $350. Remote VFO, mod. 243, $75. George Sperry, W4UKA, 635 SE 19th St., Ocala, FL 32671 904 732-3364.

ADOLESCENCE IS THE AWKWARD AGE WHEN A CHILD IS TOO OLD TO SAY SOMETHING CUTE AND TOO YOUNG TO SAY SOMETHING SENSIBLE.. . . W4ZGG.

FOR SALE: TS820 digital readout CW-SSB- filters with manual & service manual $485. Pick up or will ship UPS. Joe Deleo KI4VT, 217 Central Ave., Frostproof, FL 33843 813 635-4734.

NOW IN STOCK: JAPAN radio Co. LTD, JST-135 HF transceiver $1799.00, NRD-525 HF general coverage receiver and all accessories. HRD-525 $1199. All new equipment. MFJ code practice, MFJ-557 with key $24.95 Hustler, Ham-10 antenna specialist, Comtelco antennas, etc. Tempo One, power supply and EX-VFO $275. Kenwood TS-940 $1899. (new) ICOM HT220, 144, 440 and dual banders in stock. All band sloper $74.95, Uniden 10 meter HR-2600 (new) $219.95 Uniden HR-2510 (used) $180. and much more. Come and see our new store in Lake Co. N4EDQ AMATEUR RADIO SALES, 4400 Hwy 19A, Mount Dora, FL or call 904 589-0222 or store hours Mon-Fri 9 AM to 5 PM and Sat. 9AM till Noon.

FOR SALE: Kenwood TS520S plus VFO 520 perfect $475.. Collins 75A4 receiver SSB filter $300. WANTED: Old amateur transmitters by Collins, National, Harvey Radio Labs, REL, Gross, Utah and Related manuals, schematics, Catalogs, etc. F. Parker Heinemann W1YG, 745 16th Ave. South, Naples, FL 33940 813 262-2568.

FOR SALE: Kenwood TS-711A all mode 2 meter xcvr. 1 220 V - 110V or 13.8 VDC power 25 watt output. Factory condition with shipping cartons & manuals $800. Jay Buford N4NHX, 7510 Harbour Blvd., Miramar, FL 33023 305 987-7164.

SOMETIMES I WISH I WERE STUPID ENOUGH TO LIKE EVERYONE AND SMART ENOUGH TO BE THAT STUPID.

Mini-quad antenna 6-10-15-20 12-17 with tuner complete with push up mast and mount. Very good condition, sell or swap $75. OBO. 10 mtrs vertical $15. pick-up only. G Collins WD4PSK, 11132 Box 11132, St. Petersburg, FL 33733 813 321-3463.

WANTED: TWO air sockets for 8874 tubes. E. Shafer N8ES 3479 Kersdale, Pepper Pike, OH 44124 216 831-9198.

FOR SALE: SWAN ASTRO 102BX solid state transceiver with dual PTO's, PSU-6 power supply, desk mic $500.00 Yaesu FC-902 antenna tuner $100. Darrell Balian KD5VN 15336 SW 72nd St. No. 12, Miami, FL 33193 305 382-1987.

SELL: Kenwood 940S/AT all filters SSB 2.4/2.1 AM CW 400 FM FSK improved filters by international Radio, slow fast tuning, bank controller, installed by IRI with optimun alignement done recently. Have all papers and manuals. SP-940 with filters, original double cartons SN-5100891, excellent $1675. Geo. Collins WD4PSK P O Box 11132 St. Petersburg, FL 33733 813 321-3463.

IF IT WEREN't FOR MONEY, MANY OF US WOULDN'T GET A CHANCE TO COMMUNICATE WITH OUR KIDS AT ALL ! ! via W4ZGG.

SOMEHTING MAY BE GOOD AND TRUE, BUT UNLESS YOU UNDERSTAND IT YOU CANNOT USE IT... via W4ELR...

VIDEO BUFFS. Sell Sony 3/4 inch Videocassette U-Matic recorder/player with all channel tuner built in. Good working condition $125. NO SHIP. Will also throw in $50.00 wroth 3/4 inch tapes in own plactic cases. SHIBADEN 18 inch B&W all channel TV and MONITOR. Can use it with Sony, on any VCR or Camera or computer. Has push-buton selector in front for TV, or AUX or MON inputs. Pick up only $45. Also have two color portable cameras for sail. if interested call for details. Andy Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874.

GROUND FAULT detector AC-DC wolt checkers, transistorized, pen-light size, with pocket-clip. $12.95 Floridians add 78 cents tax. CK/MO, COD, PPD. Bert Adams Enterprises, Inc. P. O. Box 520143, Miami, FL 33152-0143. For your bonus gift please indicate you saw it in FLORIDA SKIP. Model GFD-1 pat. No. 4,006,409 73 W4JTU phone 305 271-0949.

G. A. P. DX-VI self supporting Vert. ant. for 2-6-10-12-15-20-40-80 meters. NO TRAPS, coils, transformers, balums, resistors or base insulators. Only three 25ft radials for 40 and 80 M. ONLY130 KHz on 180 M. $219. Plus Fla Sales Tax. $5.00 UPS /FL. COD OK Will trade. MCClaran Sales, Inc., P. O. Box 2513, Vero Beach, FL 32961 407 567-8224.

DETAIL ASSEMBLY: THE AFT PORTION OF AN AIRPLANE. tks W4PKZ.

WANTED: Collins S-Line KWM-380 KWM-2/2A 30L-1, 30S-1 working/not working. TEN-TEC Paragon Corsair I/II Argonaut 509/515. Garry Murphy, KF4S, 7901 Baymeadows Cir. E., Apt. 455, Jacksonville, FL 32258 904 737-7793.

FOR A SALE 50 ft. galvanized crank up tower, 3 element with amateur beam antenna, parts, disassembled, U-Haul $300. Negotiable. Call Brion Dowling, 1730 Cleveland Rd., Miami Beach, FL 33141 305 868-4516.

WANTED: Copy radio transmitter principles and projects by Ed Noll W3FQJ. State condx and price. H. Schultz KA3GXP, PO Box 10097, Erie Pa 16514.

SELL: KENWOOD TS-830S with YK88C CW filter 500 cy with MC-50 mic $650. Kenwood R-1000 cont. coverage with SP-100 spkr $200. Kenwood AT-230 9 band antenna tuner 300 watt new. $175. Kenwood VFO 240 remote vfo for 820 - 830 series $80. Yaseu ys-2000 peak reading and SWR output meter 2 Kw $60. SWAN WM-2000A peak reading anf SWR output meter 2 Kw $55. All equipment excellent to new condition iwth all manuals. Cables and cartons. Would prefer pick up so you can try all items on operating table. Don Phillips W4PEL, 7807 NW 39th St. Coral Springs, FL 305 752-2990.

TEN-TEC, New boxed latest 1990 production models, USA made. 562 OMNI V, 585 Paragon transceivers, Titan 425 1.5 Kw and 420 Hercules 1Kw linear amplifiers, 238 2Kw and 254 300W antenna tuners, 239, 300W and 240, 1.5 Kw dry dummy loads, 2510B Satellite station, mobile HF antennas, keyers, filters and accessaries. VISA/MC OK Check for best deal, Write/Phone Bill Slep 704 524-7519, SLEP ELECTRONICS COMPANY Highway 441, Otto, NC 28763.

HE WHO NEVER MADE A MISTAKE NEVER MADE A DISCOVERY. tks W4Zgg.

SELL: 42 ft. crank up tower, folding base, heavy galvanized two twenty feet sections plus rotor mounting section 3.5 ft good condition. Pick up only $165. OBO. George Collins WD4PSK, P O Box 11132, St. Petersburg, FL 813 321-3463.

FOR SALE: ROBOT 450 C & 800 ideal for SSTV & RTTY with cables and instruction books. Booth $500.00 A Gabriel, K4BZY, 126 St. Lucie Lane, Stuart, FL 34994 407 337-2363.

YAGI BUILDERS. Tube traps, tubing, clamps and universal plate for boom to mast or elements. Six band rotary pipole or Yagi. 10 thru 40M. SASE for details. 1-800-833-3794, 1-2 PM E.S.T. Brown Engineering, Inc., 5501 SW 25th Ct., Hollywood, FL 33023.

FOR SALE OR TRADE: Two complete rigs. SB102 with SB 200 amp. $300. SWAN 400 with 2 power supplies $200. Both with manuals, each needs audio defect corrected. Due to severe arthritic condition, I am unable to work on rigs and can't locate anyone locally to help. Will consider any offer for either unit. H. C. Arnold W4PCP, 4118 Cleveland St., Hollywood, FL 33021 305 981-5541.

TUBE: 3-500Z brand new EIMAC in unsealed carton $95. plus insured UPS. Andy Clark W4IYT 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874.

IF YOU WANT TO KEEP OUT OF DEBT YOU MUST EARN MORE THAN YOU YEARN..via ZGG

SELL: Dentron MT-3000A tuner, the BIG ONE $175 with Man. Orv Johnson VE3BFJ/W4, 327 Cathy Dr., Lakeland, FL 33801 813 687-2087.

COLLINS MANUALS: Have following Collins left: 2 51N4 $10. eac. 3 51N2 - $10. eac. 1 51M8 $10., 1 75S1 (copy) $15. 1 Fundamentals of SSB (300 pages) with KWM diagrams $40., 1 Amateur Radio Equipment (1971) $8. 1 136 B Noise blanker $10, 3 - 62S1 VHF converter $15 each, 1 709E freq. shift Osc. $10. 351D1 Mobile mount $5 and 1 KWM2/KWM2A $15. Have about 40 HeathKit manuals - what do you need?? Andy Clark W4IYT, 41 Lenape Dr. Miami Springs, FL 33166 305 888-3874.

NEED TUBES?? Have huge inventory, including 3-500Z 572B's etc. Call or FAX for price quotes. Also buy tubes. D & C Electronics, Dick Gross, N1BGL, 3089 Deltona Blvd., Springs Hill, FL 34606 904 688-2374 FAX 904 683-9595.

FOR SALE: Collins KWM2/PS $275. 75S3 $170. 32S3/PS $225, 30L1 $450. Yeasu FTdx401 $75. Tempo 2020 $200. Hammarlund HQ170 $50. All like new with manuals. A. Uhimchuk WA2AQW, 469 NE Armory Cir. Pt. St. Lucie, FL 34983-1738 407 878-9783.

NOTICE HAMBAR USERS ! ! ! repeat...All Hambars MUST be sent in the mail! Nothing over the phone! No corrections via phone! All hambars must be IN Box 501 by the 15th to be published in the next issue! This is still excellent service considering other magazines take much longer! Pls give us your support. We will help you, if you will help us!! 73 AC

WANTED: Manual for Heath HO-10 scope or will pay for copy of same. Urgently needed. Neal Bartley K4REC 3112 S. Julia Cir., Tampa, FL 33629 813 837-9314.

SALE: ICOM IC-740 HF transceiver with power supply & narrow band SSB filter also has WARC bands. $850. Vic Seay, KM4EX, 4543 33rd Ave. N., St. Pete, FL 33713 813 527-9324.

MOST SMILES ARE STARTED BY ANOTHER SMILE.

SELL: KENWOOD TS430S with CW filter and MC-735 mike $575. Want remote VFO VFO520, VFO120, VFO-820 working or not. Want TS520 for parts. Doug Snowden N4IJ, 1590 Oakfield Ave. Se. Palm Bay, FL 32909 407 984-9360.

GET INTO RTTY AND CW real cheap. HAL 2000 keyboard with Hal 600 demodulator in original cartons, with $100. worth of cableing, and 13 inch Sanyo B/W video monitor. All for $225. FIRM. Leo Toussaint KC4DE, 7500 SW 82 Ave., Miami, FL 33143 305 271-8055.

SALE: HEATH SB-101 less power supply with manual $75 Heat 3200 Digital design expeirmenter no man. $50. Heath Microprossor course EE3403 $45. Heath ET3400 microcomputer trainer with man. $150. AN/URM 106 receiver, 14Kc to 250 Kc in four bands $75. Bogen CT-100w Amp. $125 ECV5N3-118 modular d.c . supply 5V at 2.6A adj. $10. D.C. supply 24 VDC 2.4 Vari. $10. 3M 2520 Cassette recorder heavy duty $75. Lew Elrod WA4KNO, 1979 NE 147 Lane., Miami, FL 33181 305 944-0516.

ATTN TRAFFIC MEN: A HISTORY OF QFN FROM ITS INCEPTION TO 1985 is now avaible from Doc WA4HDH, 1362 Plumosa Dr., Fort Myers, FL 33901. The history is written with back ground by Doc who has been a NCS since 1964..

Only one complaint from us about that 'fest — the tiny room for the packet meeting. Next year folks, please let us use the air-conditioned space?

Only the O.M. went to Pinellas the following day. He said I really missed a good one. The price was right, the coffee and donuts were free and, again, a nicer bunch of folks you won't find. By noon, however, he'd seen it all and was home about the same time I returned from church.

Miami! What a place. The hotel rooms we reserved last December, were not recorded on the computer. No matter. They found a couple of empty ones and let us have the convention rate anyhow. Now that was nice of the hotel.

The security at the front gate, the long lines to buy tickets, the number of inspectors who inspect tickets — this could be made a lot easier. Once past this barrier, however, there was much to see. I even got a Kenwood cap. Did you? Not many did.

My 85-year-old mom enjoyed the demonstrations in the corner set aside for crafts. She can't wait to try some iron transfers on T-shirts. I'm not pulling your leg — she's going to do it!

We couldn't see it all on Saturday, so we came back on Sunday. The crowds had thinned out. We took in a couple of lectures in the little air-conditioned theater room.

Which brings me to my biggest complaint about the Miami 'fest: **no** MARS program; **no** packet program. My two favorite subjects. This is the fault of the MARS-folk and the packet-folk, **not** Evelyn Gauzens and her great crew.

Sarasota. You folks have the makings for a super hamfest. Plenty of free parking, nice facility, central location. I hope next year the P.A. system is working. No one could hear the prize numbers being announced. We could not hear what meeting you were talking about and where it would be. There were no printed program booklets or brochures that I could find. The nice gentleman manning the mike could not or would not say who had won the prizes. "They've all been picked up," was all he would ever tell me.

Sorry Sarasota. Even with all the friends I have in your area, I probably will skip you next year. You won't miss me — the aisles will be crowded enough.

Ft. Walton and Orlando. We'll be visiting you in March. See y'all there.

MICROSAT INFO

By Walt Dixon, W4DWX, No. 1184

AMSAT-OSCAR 16 (PACSAT) sponsored by AMSAT-NA and LUSAT-OSCAR 19 sponsored by AMSAT Argentina are primarily packet radio store and forward flying mailboxes. They are designed to receive digital packet radio messages from ground-based stations and relay them to other ground-based stations in other geographic locations later along the spacecraft's orbital path. Also OSCAR 19 contains a special beacon which transmits telemetry back to earth by Morse Code.

WEBER-OSCAR 18 is sponsored by Weber State College of Ogden, Utah has several experiments including a CCD camera and software to interpret images of earth from space. In addition there is a digital store and forward system.

DOVE-OSCAR 17 sponsored by AMSAT-Brazil is intended to interest young students in amateur radio and satellite technology. It is not a store and forward satellite. It does transmit telemetry using standard AX.25 packets using the BELL 202 standard. Anyone with a VHF packet station can receive DOVE's data.

DOVE's primary function is to downlink digitized voice. It has a special voice synthesizer and voice digitizer capable of transmitting messages and date in plain language.

Students using simple equipment can receive these broadcasts in their own classrooms. Broadcasts will be made in all languages.

Any questions? Write: AMSAT P.O. Box 27, Washington, DC 20044; or check AMSAT Net 3940 KHz 9:00 p.m., Tuesdays.

F.C.C. MOVES

Once-in-a-while you may find it necessary to contact the FCC Office in Tampa. The FCC recently moved it's offices.

The new address is 2203 North Lois Avenue, Tampa, Florida 33607. Telephone (813) 228-2872.

— Reported from FMARC Modulator

At a recent meeting of the Indian River ARC, Frank Krushina, K4DW, left, receives his ARRL 50-year membership plaque from Carl Zelich, AA4MI, ARRL Assistant Director, SE Divison. Congratulations Frank ! !

FREE FLEA • FREE FLEA • FREE FLEA

The famous W4MAQ, Cy Harris Memorial Free Flea will be held on Saturday, March 10th. No rain date this time folks, due to commitments in the ham community. Same good location, the east parking lot of the Motorola Corporation. Start about 7:00 a.m. and lasting until . . .

The Motorola ARC again will have coffee and donuts, then a little later cold drinks and those good hot dogs, all for a very nominal donation.

The Motorola east parking lot is the first traffic light on Sunrise Boulevard east of University Drive. Turn south at that traffic light and you are at the Free Flea.

If you have any questions or need help, please contact me, WD4NEA, Billy on 146.31/91 or call me at (305) 989-0509 in Hollywood. Talk-in is on 146.19/79.

— 73,
Billy

See you there.

FLOODS ACTIVATE AMATEUR RADIO

On Sunday, September 24th, areas of Jacksonville had as much as 11 inches of rain in less than six hours. About 2:00 p.m., many areas of the west side were under water with some houses being flooded in the Murray Hill and Woodstock areas. The Duval County Amateur Radio Emergency Service was activated and hams were dispatched to open a shelter at Lee High School.

Although several more inches of rain were expected Sunday night, the threat of heavier flooding did not materialize and the waters subsided about 8:00 p.m., Sunday night. The shelter, sponsored by Red Cross, closed at 11:00 p.m.

Information gleaned from the ARES Net was very helpful in directing motorists around flooded areas and possibly avoiding more than the two fatalities which were attributed to the rain. Reports from radio amateurs were used to prepare information which was passed over WOKV-AM Radio which scheduled special broadcasts during the afternoon.

— Reported from N4UF — Balanced Modulator

LOOK AGAIN

Look at the top line of your mailing label. This is your ONLY REMINDER WHEN YOUR SUBSCRIPTION RUNS OUT! You can renew ANYTIME before experation date and our computer will automatically "ADD ON" from that date. It is just like putting money in the bank. We take renewals for one, two or three years, if you so desire.

So it's up to you to watch that top line. If you miss, the computer will automatically skip over your address when printing mailing labels.

Thanks for your cooperation in this important matter.

— 73, Editor